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Theodore R. Kulongoski, Governor

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July 3, 2006

Kristine Koch
Remedial Project Manager
U.S. Environmental Protection Agency
1200 Sixth Avenue, M/S ECL-115
Seattle, WA 98101

RE: Milestone Report for Upland Source Control at the Portland Harbor Superfund Site

Dear Ms. Koch,

DEQ submits the attached *Milestone Report for Upland Source Control at the Portland Harbor Superfund Site,* dated June 2006, to EPA as required by the Portland Harbor Joint Source Control Strategy (JSCS), which was finalized in December 2005. This is the second Milestone Report prepared by DEQ; the first was submitted in March 2006. Three hard copies of the report are included for your convenience, and DEQ will provide hard copies to EPA partners and members of the public upon request as well. The report will also be posted on DEQ's web site within the next week.[1]

DEQ appreciated EPA's comments on the March 2006 Milestone Report, and DEQ managers and staff discussed all of EPA's suggestions and questions raised. In meetings with you on May 8 and with EPA partners on May 25, we discussed comments with both EPA and EPA partners. As a result, DEQ decided to make a number of changes to the format and content of the Milestone Report, as summarized below.

Changes made in response to EPA and EPA partner comments

- Modified *Section 2: Identifying Potential Sources of Contamination in Portland Harbor* to describe only DEQ's current site discovery process (the March 2006 Milestone Report described DEQ's site discovery process both before the 2000 Superfund listing and after the listing).
- Removed Tables 1, 2 and 3 from the June 2006 Milestone Report (these tables provided information about DEQ's site discovery process before the 2000 Superfund listing).
- Added text to *Section 6: Issues Encountered in Source Control Work* providing more information on the sites that DEQ identified for accelerated source control work, including a statement of the problem(s) at each site and DEQ's approach for addressing the problem(s).

[1] Milestone Reports are available at www.deq.state.or.us/nwr/PortlandHarbor/JSCS.htm.

- Provided color coding in Table 1 to indicate high, medium and low priority sites (*note: Table 1 was previously titled Table 4 in the March 2006 report*).
- Provided more information where possible in Table 1 to clarify schedules for expected source control work.
- Provided more information where possible in Table 1 to better describe *interim* source control actions that are occurring or have occurred at sites, even if formal source control alternative evaluations have not yet been conducted.
- Updated the "date last modified" column in Table 1 to indicate information that has changed for each site since the March 2006 report.
- Added a footnote to the end of Table 1 that lists sites in Portland Harbor that DEQ has screened and determined that they are *not* potential sources of contamination to the river.
- Added text in *Section 9: Information about Table 1* to (1) clarify that sites in Table 1 are listed by river mile, (2) better describe DEQ's basis for determining whether source control is needed at each site, and (3) define "insignificant pathway" as it is used in Table 1.

In addition, DEQ acknowledges EPA's request for more information about the status and progress of evaluation and control measures at individual stormwater basins that are covered by the City of Portland Outfall project. DEQ received a similar comment from the Port of Portland. We are in the process of working with the City to develop a tracking and reporting format for stormwater basin evaluation and control, and updates on the progress of this effort will be provided in future Milestone Reports.

Also, a suggestion was made by EPA's partner, Environment International, to include in the Milestone Report a map of all the sites listed in Table 1. DEQ agrees that a map would be helpful, and we plan to develop and include a map of sites in the December 2006 report.

As you review the June 2006 Milestone Report, please contact Jim Anderson, Portland Harbor Project Manager, with any additional suggestions or comments.

Frequency of future Milestone Reports

The 2001 MOU states that "annually, DEQ will prepare and provide to EPA and the TCT a milestone report summarizing the status of DEQ source control activities." The 2005 JSCS, however, calls for Milestone Reports to be submitted to EPA on a quarterly basis. Given limited DEQ staff resources, and recognizing that the overall status of source control work in the Harbor does not change significantly on a quarterly basis, DEQ has decided that we will begin submitting Milestone Reports to EPA on a biannual basis – once every six months. Biannual reports will assist EPA, EPA partners and the public in discerning significant changes in source control activities over time, thus making the best use of everyone's limited time and resources. Accordingly, DEQ will submit the third Milestone Report to EPA in December 2006.

Thank you for your continued assistance in coordinating EPA's support to DEQ on Portland Harbor source control work. Please let us know if you would like to convene a meeting with DEQ and interested EPA partners to discuss the June 2006 Milestone Report, including site prioritization and source control progress.

Sincerely,

Mikell O'Mealy

Mikell O'Mealy
Portland Harbor Project Outreach Coordinator

Cc: Jim Anderson, Portland Harbor Project Manager, DEQ/NWR
Matt McClincy, Portland Harbor Project Technical Coordinator, DEQ/NWR

Milestone Report

for Upland Source Control at the Portland Harbor Superfund Site

June 2006

Prepared by the Oregon Department of Environmental Quality
as required by the 2005 Portland Harbor Joint Source Control Strategy

State of Oregon
Department of
Environmental
Quality

This document is posted on DEQ's web page at http://www.deq.state.or.us/nwr/PortlandHarbor/JSCS.htm.

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Attachment

1.0 Introduction

On December 1, 2000, a section of the lower Willamette River within the City of Portland, the Portland Harbor, was added to the Superfund National Priority List (NPL). In February 2001, the Oregon Department of Environmental Quality (DEQ), United States Environmental Protection Agency (EPA), and other governmental parties[1] signed a Memorandum of Understanding (MOU) that provided a framework for cooperation in the investigation and cleanup of the Portland Harbor Superfund Site to optimize federal, state, tribal and trustee expertise and available resources.

Under the 2001 MOU, EPA was designated as the lead agency for investigating and cleaning up "in-water" contamination in the Harbor, or contamination in the river water and underlying sediment, using federal Superfund authorities. DEQ, using state cleanup authority, was designated as the lead agency for identifying and controlling "upland" sources of contamination, or those sources of pollution adjacent to or near the river that may be contaminating river water or sediments. To coordinate in-water cleanup and upland source control work, the MOU directed DEQ and EPA to jointly develop a source control strategy that defines a process for identifying and controlling potential sources of contamination threatening the river.

DEQ and EPA finalized the Portland Harbor Joint Source Control Strategy (JSCS) in December 2005[2]. The overarching goal of the JSCS is to identify, evaluate and control sources of contamination that may affect the Willamette River in a manner that is consistent with the objectives and schedule for the Portland Harbor remedial investigation and feasibility study (RI/FS). Timely upland source control is necessary to allow cleanup of the river to proceed without risk of significant recontamination. DEQ is currently implementing the JSCS in the Portland Harbor Superfund Site study area – approximately River Mile 2 to River Mile 11[3].

The JSCS requires DEQ to prepare a Milestone Report on a quarterly basis that summarizes the status of DEQ's upland source control work. This is the second Milestone Report; the first report was prepared in March 2006. Milestone Reports are submitted to EPA, and provide the basis for potential meetings with EPA and our government partners to discuss site prioritization and source control progress. These reports also serve as documentation of progress on river-wide source control within Portland Harbor.

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[1] The signatory partners to the MOU include the EPA, DEQ, Confederated Tribes and Bands of the Yakama Nation, Confederated Tribes of the Grand Ronde Community of Oregon, Confederated Tribes of Siletz Indians, Confederated Tribes of the Umatilla Indian Reservation, Confederated Tribes of the Warm Springs Reservation of Oregon, Nez Perce Tribe, National Oceanic and Atmospheric Administration, Oregon Department of Fish and Wildlife, and U.S. Department of the Interior.

[2] The JSCS is available on DEQ's web site at http://www.deq.state.or.us/nwr/PortlandHarbor/ph.htm; click "Joint Source Control Strategy" on the left side bar.

[3] "River Mile" indicates the distance from the Willamette River's confluence with the Columbia River (i.e., River Mile 11 is 11 miles upstream of the confluence).

1.1 Organization of the Milestone Report

The Milestone Report is organized as follows.

- Section 2.0: Identifying Potential Sources of Contamination in Portland Harbor – This section describes DEQ's work to identify potential sources of contamination to the Willamette River in Portland Harbor, including site discovery and site assessment activities.
- Section 3.0: Evaluating Potential Sources of Contamination to the River – This section describes DEQ's evaluation of all confirmed or suspected upland sources of contamination to Portland Harbor, as summarized in Table 1.
- Section 4.0: Taking Measures to Control Sources and Making Source Control Decisions – This section describes the source control measures used at upland sites in Portland Harbor and the process for making source control decisions, including coordination with EPA and our government partners, and public involvement opportunities. Source control measures and decisions are summarized in Table 1.
- Section 5.0: Status of Ongoing and Completed Source Control Measures – This section describes the information presented in Table 1 that summarizes the status of ongoing and completed source control measures.
- Section 6.0: Issues Encountered in Source Control Work – This section describes issues affecting DEQ's ability to conduct source control work and proposes ways to resolve issues as well as a desired timeframe for resolution.
- Section 7.0: Summary – This section summarizes the overall status of source control work in Portland Harbor, highlighting accomplishments, key issues and next steps for moving forward.
- Section 8.0: Obtaining Additional Information on Upland Source Control Work – This section indicates where additional information can be found on the status of source control work at upland sites in Portland Harbor.
- Section 9.0: Information on Table 1, *Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor*: This section provides helpful information for interpreting Table 1, including definition of key terms and acronyms used.

2.0 Identifying Potential Sources of Contamination in Portland Harbor

DEQ's strategy for identifying and investigating potential sources of contamination to Portland Harbor prior to the December 2000 Superfund Site listing was described in the March 2006 Milestone Report. Those site identification and investigation activities were initially focused on a six mile stretch of the lower Willamette River (now known as the Initial Study Area) extending from the southern tip of Sauvie Island upstream to Swan Island, from approximately River Mile 3.5 to River Mile 9.2. For more information, please see the March 2006 Milestone Report at www.deq.state.or.us/nwr/PortlandHarbor/JSCS.htm.

2.1 Recent Site Discovery and Site Assessment activities

As the Portland Harbor study area has grown to include a nine mile stretch of the lower Willamette River extending from River Mile 2 to River Mile 11, DEQ's site discovery and site assessment efforts have expanded with it. Recently, much of DEQ's site discovery and site assessment work has focused on identifying potential sources of contamination threatening the river through stormwater that is piped to the river from surrounding upland areas. DEQ is working closely with the City of Portland to identify upland sources contributing contamination via the City's municipal stormwater system, and evaluating and controlling stormwater inputs to the Harbor will continue to be a focus for DEQ in the years to come.

3.0 Evaluating Potential Sources of Contamination to the River

DEQ is investigating or directing source control work at over 60 upland sites in Portland Harbor. Preliminary investigation activities at these sites are designed to determine whether the site is a potential or ongoing source of contamination to the river. These investigations, or "source control evaluations," consider all potential, current and historic contaminant sources and pathways for the contaminants to migrate to the river. Potential pathways include:

- Direct discharges – Pollutants from commercial, industrial, private or municipal outfalls are being discharged directly to the Portland Harbor Superfund Site. Many of these discharges are permitted under the Clean Water Act National Pollutant Discharge Elimination System (NPDES). Permitted discharges include industrial wastes, storm water runoff, and combined sewer overflows (CSOs)[6].
- Groundwater – Contaminated groundwater may enter the river directly via discharge through sediments, bank seeps, or it may infiltrate into storm drains/pipes, ditches or creeks that discharge to the river. Contaminant migration may occur as non-aqueous phase liquids (NAPLs) or as chemicals dissolved in the groundwater itself.
- Stormwater – Contaminants may be carried to the river by water that runs off a site into storm drains after it rains, delivered to the river by stormwater pipes (including permitted and unpermitted stormwater discharges).
- Overland transport/sheet flow – The uncontrolled flow of water from a site to the river and the transport of other materials from a site may deliver contaminants to the river.

[6] CSO events are untreated discharges of combined storm water, sanitary sewage from residential, commercial, and industrial sources that overflow from the sewer system into the river during heavy rainfall periods when the amount of storm water and sewage exceeds the capacity of the collection system.

- Bank erosion/leaching – River bank soil, contaminated fill, waste piles, landfills and surface impoundments may release contaminants directly to the river through erosion, via soil erosion to storm water, or by leaching to groundwater.
- Overwater activities – Contaminants from overwater activities (e.g., sandblasting, painting, unloading, maintenance, repair and operations) at riverside docks, wharves, or piers; discharges from vessels (e.g., gray, bulge, ballast waters); full releases; and spills may affect the river.

These potential contaminant migration pathways are evaluated for each site, and sites that are identified as current or potential sources of pollution to the river are characterized and prioritized. Source control measures are then initiated, or further evaluation of source control alternatives is conducted to determine whether source control measures are required.

Table 1 provides a summary of confirmed and suspected upland sources of contamination to the river that DEQ is either actively working on or has finished source control work on by issuing a final source control decision. Table 1 also provides the basis for the determination that a site is a source of contamination to the river, the status of and schedule for source control evaluation, and the priority of the site for source control. The table includes the priority of each contaminant migration pathway for each site, as well as the overall priority of the site based on the pathway priorities.

High priority sites are identified in the table based on existing site information, and subsequent Milestone Reports will identify any new high priority sites as new information becomes available. Source control is expected to move forward at high priority sites without delay.

4.0 Taking Measures to Control Sources and Making Source Control Decisions

DEQ determines the need for source control measures at each upland site, in consultation with EPA, based on the completeness of contaminant migration pathways, exceedances of Screening Level Values (SLVs), and other factors as appropriate. See p. 3-1 through 3-6 of the JSCS for more information about SLVs, and p. 4-1 through 4-8 of the JSCS for more information about the source control decision process.

4.1 Types of source control measures

Upland source control is an iterative process, where early steps may be revisited and conclusions refined by information gathered later in the process. A combination of tools may be used to control a source, including but not limited to the following.

- Technical assistance – Technical assistance, often provided during inspections, provides technical information designed to help individual businesses bring their facilities into compliance with environmental regulations. DEQ's Hazardous Waste Program is actively providing technical assistance to facilities within the Portland Harbor Superfund Site area.
- Cleaning up contaminated upland areas – Cleanup work addresses contaminated soil, groundwater, stormwater and other sources and focuses on reducing or eliminating

contaminant migration to the river. Common source control measures include removing highly contaminated soil areas, stabilizing or capping contaminated bank areas, treating or containing contaminated groundwater, and extracting contaminated sediment from storm sewer systems. Source control measures vary from site to site.

- Source control of active discharges – Tools to control active discharges include best management practices, industrial process changes, pollution prevention practices, and technology-based effluent controls. Compliance is achieved voluntarily or through administrative actions, including permits or enforcement.
- Source control of storm water – Storm water source control is complex because storm drain systems capture discharges from many different sources (e.g., land use activities, runoff from contaminated sites, and infiltration of contaminated groundwater into the storm drain system). It is also complex because storm water regulation may involve federal, state and local agencies. Because of this complexity, all of the tools described above are useful for storm water source control and will be used as appropriate.
- Administrative actions and enforcement – Administrative actions include licenses, permits, deed restrictions, requirements for site development plans, and enforcement actions, which may be necessary when administrative actions are violated. Agencies rarely take enforcement actions without first conducting an inspection and documenting findings, requested changes, warnings and offers of technical assistance. When enforcement actions are warranted, they are usually taken in escalating order, starting with notices of violation, moving to enforcement or compliance orders requiring specific changes by a set date, and ending with monetary penalties, court action or DEQ's takeover of investigation or cleanup work. Formal cleanup actions performed under an order or decree use oversight and enforcement to ensure that appropriate actions are taken in a timely manner.

Table 1 summarizes source control decisions conducted at upland sites, the basis for the determination that upland source control measures are necessary, a summary of the selected source control measure(s), and a schedule for implementing the source control measure(s).

4.2 DEQ coordination with EPA and partners on source control decisions

As the lead agency for identifying and controlling sources of upland contamination threatening the river in Portland Harbor, DEQ coordinates with EPA and our government partners on source control work. This includes documenting, tracking and coordinating source control efforts as described in Sections 2.5 and 7 of the JSCS.

DEQ will provide EPA and our partners with an opportunity to review source control decisions prior to being finalized. These decisions typically fall into the following three categories.

- DEQ has determined that a site is not a current or future source of contaminants to Portland Harbor and that no source control measures are required.
- DEQ has selected the source control measures for a site.
- DEQ has concluded that source control at a site is complete, or in the case of systems that require operation and maintenance (e.g., hydraulic containment), that the source control action is effective.

DEQ will inform EPA and our partners of pending source control decisions and the schedule for review, and will provide copies of source control decision documentation to EPA and partners upon request. EPA and partners will have 30 days to provide comments to DEQ on source control decisions.

In addition to this regular review and comment process, some upland sites in Portland Harbor may warrant closer coordination between DEQ, EPA and our partners for source control (e.g., the Gasco site and potential source control measures for the chlorinated solvent groundwater plume at the Siltronic site). In these instances, DEQ and EPA source control coordinators will develop a project-specific coordination strategy.

4.3 Public involvement in source control decisions

DEQ Cleanup Program statutes and rules require that a public notice and comment opportunity be provided prior to DEQ's selection of a final site cleanup remedy and before DEQ determines that the cleanup is complete. For upland Portland Harbor cleanup projects, this means that DEQ issues a public notice and seeks public comments on the recommended final site cleanup strategy. Once public input is considered, DEQ's final decision is documented in a Record of Decision (ROD) for the site. For most sites, the upland DEQ ROD includes elements that address both source control for Portland Harbor and cleanup actions specific to areas of upland contamination that are not related to pollution in the Harbor.

Many of the source control measures implemented at upland sites are conducted prior to the selection of the final upland site remedy. While public notice and comment is not required for these "interim" removal actions under DEQ statutes and rules, DEQ typically does issue a public notice and seek public comments when the action is likely to be a substantive piece of the final site remedy, or as the DEQ project manager determines is appropriate.

DEQ does not typically seek public comments for small-scale interim source control measures and time critical actions. Project managers will, however, issue notices as appropriate to let the public know that the activity is being conducted.

5.0 Status of Ongoing and Completed Source Control Measures

Table 1 summarizes the status of ongoing source control measures (SCMs), including SCM activities completed to date, proposed SCM activities, and a target schedule for completion. To the extent practicable, DEQ has collected information and/or made estimates of the mass or volume of contaminants removed, contained, treated or otherwise controlled, to help demonstrate the progress of source control activities.

Table 1 also summarizes completed SCMs and provides the date that the SCM was completed, the date of EPA review and comment, and any operation and maintenance requirements associated with the SCM.

6.0 Issues Encountered in Source Control Work

This section summarizes issues affecting DEQ's ability to make source control decisions or completeness of determinations for any step of the source control process. This section also presents DEQ's proposed ways to resolve the issues and a desired timeframe for resolution.

Issue 1: Moving certain projects through the source control process
For a number of reasons, certain DEQ Portland Harbor cleanup projects are not proceeding through the source control process at an acceptable pace. Source control activities at these sites need to be accelerated in order to identify, evaluate and control upland contaminant sources before the Portland Harbor Record of Decision.

To resolve this issue, DEQ will first identify the sites and then accelerate their schedules for source control work. DEQ identified following sites in the March 2006 Milestone Report, and these sites remain a high priority for accelerated source control. Below is a summary of the status of each site.

- **Premier Edible Oil (PEO)**
  Problem: Schnitzer Investment Corp (SIC) is the owner and responsible party of the PEO site. SIC claims that their neighboring site, Time Oil, has contributed to contamination at the PEO site by either former Time Oil operations at the PEO site or by trespass from the Time Oil site adjacent to PEO. SIC has been resistant to move forward with source control work at the PEO site that SIC claims is, at least partially, Time Oil's responsibility.
  Path to resolving: DEQ directed SIC to prepare a site characterization/source control evaluation work plan which DEQ has reviewed. SIC has also prepared a "White Paper" describing site operational history and contaminant sources at the PEO site. DEQ will review the "White Paper" in July 2006, and then direct SIC to implement the work plan.
  Progress made since March 2006 Milestone Report: DEQ reviewed the draft site characterization source control evaluation work plan, met with SIC to discuss project status and future actions, and began review of the "White Paper."

- **Crawford Street**
  Problem: Crawford Street completed a limited removal of black sands (sand blast grit) in 2001 from a portion of their beach and at the top of the bank (which was the source of the black sands in the beach). Crawford Street also completed a groundwater investigation. Crawford Street needs to complete their source control evaluation by investigating the stormwater pathway at the site.
  Path to resolving: DEQ will direct Crawford Street to complete a stormwater evaluation in the 2006/2007 water year.
  Progress made since March 2006 Milestone Report: DEQ reviewed the site's file information and project status to prepare for directive action.

- **Georgia Pacific Linnton**
  DEQ made a source control determination in 2001 that the Georgia Pacific Linnton site was not a contaminant source to Portland Harbor. This determination is not consistent with DEQ's identification of the Georgia Pacific Linnton site in the March 2006 Milestone Report

as a site that required accelerated action for source control. There appears to have been an internal DEQ miscommunication regarding the status of this site, which requires additional internal DEQ review.

- **Schnitzer Burgard (aka Portland Blast Media)**
  Problem: The responsible party has implemented a number of stormwater upgrades and best management practices over the last several years, but site characterization/source control evaluation needs to be completed.
  Path to resolving: DEQ will conduct site visits and hold project status meetings, and then outline a clear path for completing the site characterization/source control evaluation.
  Progress made since March 2006 Milestone Report: None.

- **MarCom South**
  Problem: Site characterization/source control evaluation in the MarCom south parcel was stalled by the owner/operator entering bankruptcy.
  Path to resolving: Property ownership has reverted to the previous owner, which has entered into a Cost Recovery Agreement with DEQ to conduct a remedial investigation/source control evaluation at the property.
  Progress made since March 2006 Milestone Report: The responsible party submitted a draft remedial investigation/source control evaluation work plan and DEQ is completing our review of the work plan.

- **GS Roofing**
  Problem: The DEQ project manger overseeing work at GS Roofing recently left DEQ, and the vacant position has not been filled due to agency budget constraints. This has affected the progress of source control work at the site.
  Path to Resolving: DEQ is now making the GS Roofing site a priority for staffing and accelerated source control work. GS Roofing has conducted independent investigations of the facility. The next step in the project is for DEQ to review this information and provide direction regarding what additional work is required and a schedule for this work.
  Progress made since March 2006 Milestone Report: DEQ recently assigned a new project team to the GS Roofing site. DEQ has completed the review of available site information and is scheduled to provide written comments to GS Roofing by the end of July 2006.

Issue 2: Completing source control at the Gasco site

NW Natural's Gasco site is a high priority site for upland source control. The distribution and magnitude of upland contamination at the Gasco site is extensive and very significant. DEQ has directed NW Natural to collect data to support the selection, design, installation and operation of source control measures, rather than conducting further source control evaluation. NW Natural and DEQ have agreed to a schedule for a phased approach to design and implementation of source control measures by 2008. NW Natural is moving forward with this work.

DEQ is also currently negotiating an amended agreement with NW Natural that will increase DEQ's ability to require compliance with the aggressive source control schedule. Unfortunately, the DEQ project manager for the Gasco site recently left DEQ. DEQ is actively working to

recruit a new project manager and to keep the project momentum going until a replacement is retained.

Issue 3: DEQ staff resource limitations
Limited staff resources are affecting DEQ's ability to conduct and complete source control work in Portland Harbor. The size of DEQ's Cleanup Program was recently reduced due to budget constraints, and with that reduction, DEQ lost several staff working on Portland Harbor. It is unlikely that DEQ's Portland Harbor staffing levels will be increased in the near future.

DEQ is continually looking at staff work load and developing priorities to address the most important work. DEQ will continue Portland Harbor source control efforts focusing on the most significant and potentially significant upland sources, and explore opportunities to increase staffing levels when possible.

Issue 4: Storm water investigations and site discovery efforts
The City of Portland is investigating contamination and source control options (i.e., conducting a remedial investigation and feasibility study) for the City's municipal storm water conveyance system in Portland Harbor under DEQ oversight. The purpose of the work is to determine whether discharges from the City's outfalls are a significant source of Portland Harbor sediment contamination. DEQ is working closely with the City to identify upland sites that may be contributing contamination to the storm water outfalls. A number of new upland sites may be identified in this process, and limited staff resources may affect DEQ's ability to evaluate these new sites.

DEQ will continue to prioritize source control work based on the most significant and potentially significant sources, including upland sites contributing storm water to the City's conveyance system.

Issue 5: Storm water evaluation and control
Storm water has been the most challenging Portland Harbor contaminant migration pathway for DEQ to evaluate and control because of the many sources contributing to storm water systems, the temporal variation in storm water and the complexity of storm water regulation. For these reasons, storm water evaluation and control has generally lagged behind other contaminant migration pathways (i.e., soil and groundwater pathways) in Portland Harbor source control efforts.

DEQ sees resolution of this issue through a number of elements. First, with the December 2005 finalization of the JSCS (and JSCS Appendix D, "*Framework for Portland Harbor Storm Water Screening Evaluations*"), DEQ project managers now have tools to better evaluate Portland Harbor storm water. Second, DEQ recently appointed Karen Tarnow as the Portland Harbor Storm Water Coordinator. This City of Portland, Bureau of Environmental Services-funded position was created to provide programmatic regulatory and site-specific assistance to sites that discharge storm water to the Harbor. Karen is assisting DEQ project managers with Portland Harbor storm water issues and helping to advance the storm water evaluation and control process. Third, DEQ's Portland Harbor Manager and Project Coordinators will work with project managers to address the storm water pathway in a timely manner.

Issue 6: Developing a long-term storm water solution
A long-term solution is needed to control contaminants in storm water discharges to Portland Harbor to ensure that ongoing storm water discharges do not recontaminate in-water cleanup remedies.

Resolving this issue will take time. In 2005, DEQ formed a Portland Harbor Storm Water work group composed of staff and managers from DEQ's Cleanup and Water Quality Programs. The purpose of the work group is to address the issue – to develop a regulatory method of ensuring that storm water will not recontaminate sediments after the remedy for Portland Harbor has been implemented. The work group will continue to meet and attempt to develop a long-term storm water solution for Portland Harbor.

7.0 Summary

DEQ is making significant progress in controlling sources of contamination to the lower Willamette River in Portland Harbor, and is coordinating resources of its Cleanup, Hazardous and Solid Waste, Water Quality and Spills Programs to achieve upland source control objectives by the expected time of the Portland Harbor Record of Decision. To date, DEQ has identified approximately 80 upland sites that may be potential sources of contaminants in Portland Harbor, and these sites have been prioritized for additional investigation or source control.

Currently, DEQ is actively overseeing investigation and source control work at over 60 upland sites (summarized in Table 1). Of these 60 sites:

- DEQ has determined that 16 sites are considered to be a high priority for source control. Seven of these high priority sites have active or operating source control measures in place.
- The priority level for 31 sites has not yet been determined. Source control evaluations, which will determine the priority for source control, are scheduled to be complete for 16 of these 31 sites in 2006.
- DEQ has determined that source control work is complete, through closing and/or issuing "No Further Action" determinations, at 15 upland sites (see shaded sites in Table 1).

In addition, the DEQ Toxic Use/Waste Reduction Assistance Program (TU/WRAP) is providing technical assistance to facilities in the Portland Harbor area that may be discharging contaminants to the river via the City's storm sewer system, encouraging these facilities to reduce their hazardous waste use and pollution releases. DEQ TU/WRAP staff worked with the City of Portland to identify priority areas and facilities, and conducted over 70 technical assistance visits and facility inspections within City outfall basins M-1, 18, 24 and 52. DEQ and the City are currently evaluating the next City outfall basins to focus on in technical assistance and inspection efforts.

DEQ will submit a Milestone Report to EPA twice a year, with the next Milestone Report scheduled for December 2006, and update Table 1 with the current status of source control work at all upland sites. For more information about the Milestone Report or DEQ's source control work generally, please contact Jim Anderson, DEQ Portland Harbor Project Manager, at (503) 229-6825, or anderson.jim@deq.state.or.us.

8.0 Obtaining Additional Information on Upland Source Control Work

For more information on DEQ's source control work at any of the sites listed in Table 1, see DEQ's Portland Harbor web page (http://www.deq.state.or.us/nwr/PortlandHarbor/ph.htm) and click on "Map of Sites" on the left side bar. This link provides a map showing all Portland Harbor upland sites and summary reports of the status of source control work. Just open the map and click on the site you are interested in to connect to DEQ's Environmental Cleanup Site Information (ESCI) database, which houses current information on work at each site.

Alternatively, contact the DEQ project manager (PM) that is leading work on the site you are interested in. Contact information for each DEQ PM is listed on the last page of this report.

For more information on the status work on the Portland Harbor Superfund Site, see EPA's Portland Harbor web page (http://yosemite.epa.gov/r10/cleanup.nsf/sites/ptldharbor).

9.0 Information about Table 1: Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor

The purpose of Table 1, entitled *Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor,* is to track and share information on the status of DEQ's efforts to evaluate and control sources of pollution to the Willamette River in Portland Harbor. The table provides information on each upland site that DEQ is working on in the Harbor, including the status of evaluations to determine whether source control is needed, the progress of source control measures, and the status of source control decisions and EPA review. Below is some helpful information for interpreting the table, including definitions for key terms and acronyms.

Site Information and Project Status

The first columns of Table 1 provide basic background information on each site, including:

- the name of the site,
- the site's reference number for DEQ's Environmental Cleanup Site Information (ESCI) database,
- the location of the site (river mile and address),
- the DEQ project manager (PM) that is leading source control work,
- the type of agreement DEQ is using to direct cleanup activities at the site (i.e., Intergovernmental Agreement, Portland Harbor Agreement, Unilateral Order, etc.), and
- the status of work occurring at the site (i.e., Preliminary Assessment, Remedial Investigation, completed Source Control Decision, Remedial Design/Remedial Action, etc.).

Sites are listed in Table 1 based on their position alongside the Willamette River, or the "River Mile" associated with their location. The River Mile indicates distance of the site from the Willamette River's confluence with the Columbia River. Sites associated with a lower river mile occur downstream of sites with a higher river mile.

Sites listed in Table 1 are those in Portland Harbor at which DEQ is actively overseeing upland investigation or source control actions, or for which source control decisions have been made. DEQ updates the site information in ECSI when a Strategy Recommendation is made, but a site is not added to Table 1 until active oversight of the project is provided by DEQ.

Source Control Evaluation

The Source Control Evaluation (SCE) columns in Table 1 provide information on the status of DEQ's work to evaluate the need for source control measures, including the status of SCE for each potential pathway, the schedule for completing SCE, the basis for determining whether source control measures are needed, and the status of EPA review.

<u>Potential pathways</u>
Six standard pathways represent the major potential pathways that contaminants could follow to reach the river from an upland site. These pathways include:

- overland transport/sheet flow – the uncontrolled flow of water and other material to the river from a site
- back erosion – erosion of material within the sloping bank areas of the site to the river
- groundwater – groundwater plumes or discharges to the river via seeps or through preferential pathways
- stormwater – stormwater discharges to the river that originate from a pipe or stormwater system, including unpermitted stormwater discharges and discharges under a DEQ general stormwater permit
- overwater activities – the storage or use of hazardous substances over the water (i.e., storage tanks on docks, permanent work activities conducted over water), that if released would be a potential current or future source of contamination to the river; pipelines and other conveyance systems are not considered in this category, releases from these types of systems are reported to the Oregon Emergency Response System (OERS) system for clean up
- other – may include permitted wastewater discharges, individually permitted stormwater discharges, air deposition or other pathways

Each of these standard pathways appears for each site in Table 1 to track SCE work on a pathway-specific basis.

Basis for determining the need for source control

DEQ evaluates each of the pathways listed above to determine the need for source control measures. DEQ makes this determination based on (1) whether contaminants are present and whether the pathway is capable of carrying them to the river (if it is, the pathway is called "complete"); and if a complete pathway exists, (2) whether it is carrying contaminants to the river at concentrations that exceed the Screening Level Values (SLVs) provided in the Joint Source Control Strategy (JSCS)[7].

Three general examples are provided below.

- *Example 1:* DEQ's initial investigations of a site that is adjacent to the river indicate that bank soils have the potential to erode into the river and carry contaminants. DEQ conducts a SCE to determine whether contaminants are in fact present in the bank soils and whether the bank soils are carrying or could carry those contaminants into the river. The SCE concludes that contaminants are present in the bank soils and the soils are carrying contaminants into the river; the pathway is deemed "complete." The SCE then determines whether the bank soils are carrying or could carry contaminants to the river at concentrations that exceed the SLVs in the JSCS. If they are or could carry contaminants to the river at concentrations exceeding SLVs, DEQ determines that source control measures are needed and assigns a priority of *high, medium* or *low* to the pathway based on the degree of SLV exceedance (see "Priority levels for each pathway and site" below for more information on the priority levels).
- *Example 2:* DEQ's initial investigations of a site adjacent to the river indicate that groundwater has the potential to migrate toward the river and carry contaminants. DEQ conducts a SCE to determine whether contaminants are present in the groundwater and

[7] See p. 3-1 through 3-6 of the JSCS for more information about SLVs.

whether the groundwater is carrying or could carry those contaminants into the river. The SCE concludes that groundwater is or could carry contaminants into the river, but only at concentrations significantly below the SLVs listed in the JSCS. DEQ determines that the pathway is "complete," but no source control actions are needed because SLVs are not exceeded.

- *Example 3:* DEQ's initial investigations of a site near (but not adjacent to) the river indicate that stormwater has the potential to migrate toward the river and carry contaminants. DEQ conducts a SCE to determine whether stormwater is in fact migrating to the river and whether it is or could carry contaminants to the river. The SCE concludes that stormwater is actually not reaching the river and could not reach the river because it is diverted to a stormwater treatment system. DEQ determines that the pathway is "not complete" and no source control actions are needed.

Definition of "Insignificant pathway; no actions recommended"
The term "insignificant pathway; no actions recommended," is used in Table 1 when (1) the pathway is complete, and (2) contaminant concentrations are below SLVs at a point of compliance (e.g., river bank monitoring wells), and are not anticipated to increase.

Use of "N/A" for the pathways
"N/A" is used in Table 1 to indicate that the particular pathway does not exist at the site. For example, for an upland site that is set back from the river (i.e., not adjacent to the river's edge) N/A would indicate that the *overland transport/sheet flow*, *overwater activities,* and *bank erosion* pathways do not exist at the site. For a site that is adjacent to the river, but where a concrete seawall lines the river bank, N/A would indicate that the pathway *bank erosion* does not exist at the site.

Priority levels for each pathway and site
Each pathway evaluated at each site is given a priority level for source control upon completion of the SCE, or when adequate information exists to determine the pathway's priority. Pathways are prioritized based on their ability to carry contaminants from upland areas to the river at concentrations that exceed SLVs. Each site is then given a priority level based on the highest priority of the pathways. For example, if a site has two *low* priority pathways and one *high* priority pathway, the site is determined to be a *high* priority for source control. Definitions for *high, medium* and *low* priority determinations follow.

- High – High priority pathways and sites are those where a complete contaminant migration pathway exists and the upland source is significantly impacting the river or poses a significant and imminent threat to the river based on initial evaluation of key source control prioritization factors (listed on p. 4-3 of the JSCS). A primary consideration is that one or more media (soil, water or air) significantly exceed applicable SLVs at the point of discharge to the river (e.g., water at the end of a discharge pipe, or soil or material at the riverbank) or the most reliable and cost-effective data point (e.g., groundwater measured at the shoreline), or where a bioaccumulative chemical is detected at concentrations significantly above the SLV. In addition, if an upland source is violating DEQ narrative water quality criteria for the Willamette River, the site may be considered a high priority. High priority sites are expected

to move forward with aggressive source control measures without delay or be subject to enforcement action.

- Medium – Medium priority pathways and sites are those where a complete contaminant migration pathway exists and the upland source is impacting the river or poses a significant and/or imminent threat to the river based on an initial evaluation of key source control prioritization factors (listed on p. 4-3 of the JSCS). A primary consideration is that one or more media exceed applicable SLVs, but not significantly, at the point of discharge to the river, or where a bioaccumulative chemical is detected at concentrations above the SLV. Although exceedance of SLVs does not necessarily indicate that a site poses a significant and/or imminent threat or needs to immediately implement source control measures, it does indicate that the site may pose a threat to human health or the environment and that additional evaluation may be needed to determine if source control measures are required to prevent, minimize or mitigate the migration of hazardous substances to the river. If the site exceeds one or more SLVs, the need for further characterization or for implementation of source control measures will be based on a site-specific weight-of-evidence determination. Medium priority sites are expected to perform a weight-of-evidence evaluation to determine if source control measures are required (see p. 4-5 of the JSCS for more information on the weight-of-evidence evaluation).
- Low – Low priority pathways and sites are those where upland data indicate, based on an initial evaluation of key source control prioritization factors (listed on p. 4-3 JSCS), that the site likely poses a low threat to the river (e.g., concentrations are near or below SLVs) or where DEQ, in consultation with EPA, may issue an upland "No Further Action" (NFA) determination or lower the State's priority of the site for further upland investigation or remedial action under DEQ's cleanup authority. Source control measures will not be required at low priority sites unless determined necessary by the results of the Portland Harbor RIFS or ROD.
- p High – DEQ's preliminary determination is that this is likely a high priority pathway or site based on available information. A final determination of pathway or site priority will be made upon completion of the SCE.
- p Med – DEQ's preliminary determination is that this is likely a medium priority pathway or site based on available information. A final determination of pathway or site priority will be made upon completion of the SCE.
- p Low – DEQ's preliminary determination is that this is likely a low priority pathway or site based on available information. A final determination of pathway or site priority will be made upon completion of the SCE.

Source Control Decisions and Status of Source Control Measures

The Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs) columns in Table 1 provide information on actions taken or needed to control sources of contamination to the river, including the selected SCMs for each pathway, status of SCM implementation, status of EPA review, and ongoing operation and maintenance requirements.

For many sites listed in Table 1, boxes for information on SCDs and SCMs will be blank because source control work at those sites is still in the evaluation (SCE) phase. Other sites may be in the process of implementing SCMs, and still others may have completed all source control work. For those sites that have completed upland source control and SCMs have been determined to be effective, shading indicates that work is finished at this point in time. Upon completion of the Portland Harbor in-water RIFS, however, DEQ will reevaluate all source control work to ensure that it adequate controlled contaminants to the final cleanup levels developed for the Harbor.

9.1 Acronyms and abbreviations

Agr	Agreement
AOC	Administrative Order on Consent
AS/SVE	Air sparge/soil vapor extraction – a Source Control Measure used to remove volatile contaminants from groundwater; often combined with treatment measures
AST	Above ground Storage Tank
AWQC	Ambient Water Quality Criteria
BMPs	Best Management Practices
BRA	Baseline Risk Assessment
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
COI	Contaminant of Interest – chemicals present in Portland Harbor at levels that could threaten human health and the environment
DEQ	Oregon Department of Environmental Quality
ECSI	DEQ's Environmental Cleanup Site Information database
EPA	Environmental Protection Agency
FS	Feasibility Study – a phase of the cleanup process; evaluating cleanup alternatives after the Remedial Investigation has been completed
GW or gw	Groundwater
ICP	Independent Cleanup Pathway
IGA	Inter-Governmental Agreement
IRAM	Interim Remedial Action Measure
HVOCs	Halogenated Volatile Organic Compounds
JSCS	Joint Source Control Strategy – issued by DEQ and EPA in December 2005[8]
LNAPL	Low density Non-Aqueous Phase Liquid
N/A	Not Applicable – used in Table 4 to indicate that the particular pathway does not exist at the site
NAPL	Non-Aqueous Phase Liquid
N&E	Nature and extent of the contamination at the site
NFA	No Further Action – a DEQ notice to a Responsible Party declaring that no further cleanup action is needed at the site
OF	Outfall
p&t	Pump & Treat system – a Source Control Measure used to remove or contain and treat contaminated groundwater
PA	Preliminary Assessment – an early assessment stage of the cleanup process

[8] The JSCS is available on DEQ's web site at http://www.deq.state.or.us/nwr/PortlandHarbor/ph.htm; click "Joint Source Control Strategy" on the left side bar.

PCB	Polychlorinated Biphenyls
PH	Portland Harbor
PH Agr	Portland Harbor Agreement -- a formal agreement to conduct the remedial investigation and source control work
PH Ltr Agr	Portland Harbor Letter Agreement – an initial agreement to conduct limited investigation and cleanup activities and cover DEQ's oversight costs
PM	DEQ Project Manager leading cleanup work at the site
PPA	Prospective Purchaser Agreement – a tool for negotiating and agreeing upon potential liability for prospective purchasers of sites
PRP	Potentially Responsible Party
RD/RA	Remedial Design/Remedial Action – a phase of the cleanup process that occurs after the Record of Decision; designing and implementing the cleanup action
RI	Remedial Investigation – a phase of the cleanup process; investigating the nature and extent of contamination and understanding the potential risks posed by the contaminants to human health and the environment
RI/FS	Remedial Investigation/Feasibility Study
RP	Responsible Party
SC	Source Control
SCD	Source Control Decision
SCE	Source Control Evaluation
SCM	Source Control Measure
SLV	Screening Level Value – a contaminant-specific level established in the JSCS (see JSCS Table 3.1) that is used to screen upland pathways and sites to identify potential threats to human health and the environment.
SOW	Scope of Work
SVE	Soil Vapor Extraction – a Source Control Measure used to remove volatile contaminants from subsurface soils; often combined with soil vapor treatment
TCA	Trichloroethane
UIC	Underground Injection Control system
UST	Underground Storage Tank
VCP	Voluntary Cleanup Program
VOCs	Volatile Organic Compounds
WO	Waiting on
XPA	Expanded Preliminary Assessment – an early assessment stage of the cleanup process

9.2 Contact information for DEQ Project Managers

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Table 1: DEQ Milestone Report
Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor

7/3/2006

Note: Sites in this table are listed in order of their position alongside the Willamette River, or the "River Mile" associated with their location; the River Mile indicates distance from the Willamette River's confluence with the Columbia River.
= Shading indicates that upland source control work has been completed at the site.
= Orange indicates that the site is a high priority, or potentially high priority for source control.
= Yellow indicates that the site is a medium priority, or potentially medium priority for source control.
= Green indicates that the site is a low priority, or potentially low priority for source control.

Confirmed or suspected **Sources** of contamination to the river								Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site information					Project status							Basis for determination that source control is needed												
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Terminal 5	1686	1.5 E	15540, 15550, & 15560 N Lombard	Tom Gainer	IGA	XPA	06/12/06	Overland Transport/Sheet Flow	N/A	NA	N/A	N/A	none	to be determined	N/A	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA
Terminal 5	1686	1.5 E	15540, 15550, & 15560 N Lombard	Tom Gainer	IGA	XPA	06/12/06	Bank Erosion	N/A	NA	N/A	N/A	none		N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Terminal 5	1686	1.5 E	15540, 15550, & 15560 N Lombard	Tom Gainer	IGA	XPA	06/12/06	Groundwater	Ongoing		Fall 2006	Waiting on SCE to be completed.	to be determined		Waiting on SCE to be completed, 2006										
Terminal 5	1686	1.5 E	15540, 15550, & 15560 N Lombard	Tom Gainer	IGA	XPA	06/12/06	Stormwater	Ongoing	Implement Stormwater Sampling	Winter 2006	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed, 2006										
Terminal 5	1686	1.5 E	15540, 15550, & 15560 N Lombard	Tom Gainer	IGA	XPA	06/12/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Terminal 5	1686	1.5 E	15540, 15550, & 15560 N Lombard	Tom Gainer	IGA	XPA	06/12/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Oregon Steel Mills	141	2.2 E	14400 N Rivergate	Matt McClincy	PH Agr for RI/SCM (6/00)	RI	06/12/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	no pathway; berm prevents overland transport/sheet flow	None		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Oregon Steel Mills	141	2.2 E	14400 N Rivergate	Matt McClincy	PH Agr for RI/SCM (6/00)	RI	06/12/06	Bank Erosion	Completed			Pathway is complete	High		SCE will be part of Alternatives Evaluation	alternatives evaluation completed (June 2006)		Anticipate submittal to EPA August/September 2006						
Oregon Steel Mills	141	2.2 E	14400 N Rivergate	Matt McClincy	PH Agr for RI/SCM (6/00)	RI	06/12/06	Groundwater (UST & AST AOCs)	Completed			Insignificant pathway; no actions recommended	Low		SCE submitted to EPA 10/2004; no comments received		Soil removal completed at time of spill, prior to SCE						SCE submitted to EPA 10/2004; no comments received	
Oregon Steel Mills	141	2.2 E	14400 N Rivergate	Matt McClincy	PH Agr for RI/SCM (6/00)	RI	06/12/06	Groundwater (other AOCs)	Ongoing		July 2006	Pathway is complete	to be determined	High	SCE to be submitted to EPA by December 2006										
Oregon Steel Mills	141	2.2 E	14400 N Rivergate	Matt McClincy	PH Agr for RI/SCM (6/00)	RI	06/12/06	Stormwater	Ongoing	Further investigation of stormsewer system	December 2006	Pathway is complete	p High		SCE will be part of Alternatives Evaluation	alternative evaluation in progress									
Oregon Steel Mills	141	2.2 E	14400 N Rivergate	Matt McClincy	PH Agr for RI/SCM (6/00)	RI	06/12/06	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Oregon Steel Mills	141	2.2 E	14400 N Rivergate	Matt McClincy	PH Agr for RI/SCM (6/00)	RI	06/12/06	Other - current NPDES permitted discharge	Not Started	To be determined	No current schedule	Waiting on SCE to be completed			Waiting on SCE to be completed										
Esco Landfill Sauive Island	4409	2.6	14444 NW Gillihan Loop	No PM Assigned	Industrial landfill disposal permit	PA	06/12/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	to be determined		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Esco Landfill Sauive Island	4409	2.6	14444 NW Gillihan Loop	No PM Assigned	Industrial landfill disposal permit	PA	06/12/06	Bank Erosion	N/A	N/A	N/A	N/A	none			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Esco Landfill Sauive Island	4409	2.6	14444 NW Gillihan Loop	No PM Assigned	Industrial landfill disposal permit	PA	06/12/06	Groundwater	Ongoing	groundwater monitoring ongoing	2007	Waiting on SCE to be completed	to be determined		Waiting on SCE completion, 2007										
Esco Landfill Sauive Island	4409	2.6	14444 NW Gillihan Loop	No PM Assigned	Industrial landfill disposal permit	PA	06/12/06	Stormwater	N/A	N/A	N/A	N/A	none			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Esco Landfill Sauive Island	4409	2.6	14444 NW Gillihan Loop	No PM Assigned	Industrial landfill disposal permit	PA	06/12/06	Overwater Activities	N/A	N/A	N/A	N/A	none			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Esco Landfill Sauive Island	4409	2.6	14444 NW Gillihan Loop	No PM Assigned	Industrial landfill disposal permit	PA	06/12/06	Other	N/A	N/A	N/A	N/A	none			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Consolidated Metco	3295	2.8 E	3940 N Rivergate	Mike Romero	PH Lotter Agr for XPA	XPA	06/12/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table 1: DEQ Milestone Report
Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor

7/3/2006

= Shading indicates that upland source control work has been completed at the site.
= Orange indicates that the site is a high priority, or potentially high priority for source control.
= Yellow indicates that the site is a medium priority, or potentially medium priority for source control.
= Green indicates that the site is a low priority, or potentially low priority for source control

Confirmed or suspected **Sources** of contamination to the river								Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site information					Project status							Basis for determination that source control is needed												
Site name	*ECSI #*	River mile	*Address*	*DEQ PM*	Type of agreement directing source control	Project status	Date last *modified* (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of *contaminants* controlled	Proposed SCM *activities to be done* and schedule (m-y)	Date SCM *completed* (m-y)	Status of EPA *review of* completed SCM	Operaton and *maintenance* requirements
Consolidated Metco	3295	2.8 E	3940 N Rivergate	Mike Romero	PH Letter Agr for XPA	XPA	06/12/06	Bank Erosion	N/A	N/A	N/A	N/A	none	P Low	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Consolidated Metco	3295	2.8 E	3940 N Rivergate	Mike Romero	PH Letter Agr for XPA	XPA	06/12/06	Groundwater	Ongoing	DEQ is revisiting draft SCD	2007	Waiting on SCE to be completed.	p Low		Waiting on SCE to be completed									
Consolidated Metco	3295	2.8 E	3940 N Rivergate	Mike Romero	PH Letter Agr for XPA	XPA	06/12/06	Stormwater	Ongoing	DEQ is revisiting draft SCD	2007	*Waiting on SCE to be* completed	p Low		*Waiting on SCE* to be completed									
Consolidated Metco	3295	2.8 E	3940 N Rivergate	Mike Romero	PH Letter Agr for XPA	XPA	06/12/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Consolidated Metco	3295	2.8 E	3940 N Rivergate	Mike Romero	PH Letter Agr for XPA	XPA	06/12/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PGE Harborton	2353	3.2 W	NW Marina Way	Matt McClincy	PH Agr for RI/SCM (6/00)	Completed SCD	03/06/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	Low	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PGE Harborton	2353	3.2 W	NW Marina Way	Matt McClincy	PH Agr for RI/SCM (6/00)	Completed SCD	03/06/06	Bank Erosion	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented 5/04		No SCM needed							
PGE Harborton	2353	3.2 W	NW Marina Way	Matt McClincy	PH Agr for RI/SCM (6/00)	Completed SCD	03/06/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented 5/04		No SCM needed							
PGE Harborton	2353	3.2 W	NW Marina Way	Matt McClincy	PH Agr for RI/SCM (6/00)	Completed SCD	03/06/06	Stormwater	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented 5/04		No SCM needed							
PGE Harborton	2353	3.2 W	NW Marina Way	Matt McClincy	PH Agr for RI/SCM (6/00)	Completed SCD	03/06/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PGE Harborton	2353	3.2 W	NW Marina Way	Matt McClincy	PH Agr for RI/SCM (6/00)	Completed SCD	03/06/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Time Oil	170	3.4 E	10350 Time Oil Rd	Tom Roick	Pre-PH Agr. (9/96)	Risk Assessment	06/05/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	p High	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Time Oil	170	3.4 E	10350 Time Oil Rd	Tom Roick	Pre-PH Agr. (9/96)	Risk Assessment	06/05/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Time Oil	170	3.4 E	10350 Time Oil Rd	Tom Roick	Pre-PH Agr. (9/96)	Risk Assessment	06/05/06	Groundwater (Main Tank Farm Petroleum Plume)	Ongoing	Source control evaluation report	SCE to be submitted 6/06	Waiting on SCE to be completed	p Low		Waiting on SCE to be completed		Final SCM TBD; Interim passive NAPL recovery ongoing; In-situ chem ox pilot *conducted Spring* 2006							
Time Oil	170	3.4 E	10350 Time Oil Rd	Tom Roick	Pre-PH Agr. (9/96)	Risk Assessment	06/05/06	Groundwater (Bell Terminal Petroleum Plume)	Ongoing	Source control evaluation report	SCE to be submitted 6/06	Waiting on SCE to be completed; investigation of pathway to the river dependent on Premier Edible Oils (ECSI # 2013) work	p Low		Waiting on SCE to be completed									
Time Oil	170	3.4 E	10350 Time Oil Rd	Tom Roick	Pre-PH Agr. (9/96)	Risk Assessment	06/05/06	Groundwater (Penta Plume)	Completed			SCMs retard penta *migration and prevent* penta discharge to private stormwater outfall	p High		SCE submitted to EPA.	alternatives evaluation completed	Source area pump & treat; insitu chemical oxidation; gw to sw intercept pump & treat	SCM submitted to EPA May 2004; partners responded with questions	Ongoing pump & treat provides containment; 3 rounds of insitu chemical oxidation conducted through Spring '06	Over 24 million gallons of groundwater pumped and treated. ChemOx has also treated groundwater insitu (no estimate of volume)	Ongoing groundwater pump & treat; evaluation of ChemOx effectiveness TBD - one or more additional rounds may be needed			Ongoing maintenance and monitoring of pump & treat system
Time Oil	170	3.4 E	10350 Time Oil Rd	Tom Roick	Pre-PH Agr. (9/96)	Risk Assessment	06/05/06	Stormwater	Ongoing		SCE to be submitted 6/06	Insignificant pathway (see above re:gw/stormdrain)	p Low		Waiting on SCE to be completed									
Time Oil	170	3.4 E	10350 Time Oil Rd	Tom Roick	Pre-PH Agr. (9/96)	Risk Assessment	06/05/06	Overwater Activities	Ongoing		SCE to be submitted 6/06	No known current sources (spills reported to OERS)	p Low		Waiting on SCE to be completed									
Time Oil	170	3.4 E	10350 Time Oil Rd	Tom Roick	Pre-PH Agr. (9/96)	Risk Assessment	06/05/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
City of Portland Outfalls	various	3.5 to 9.2	various	Tom Roick	IGA for RI SCM (8/03)	RI	06/05/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table 1: DEQ Milestone Report
Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor

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Confirmed or suspected **Sources** of contamination to the river								Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)									
Site information					Project status							Basis for determination that source control is needed													
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
City of Portland Outfalls	various	3.5 to 9.2	various	Tom Roick	IGA for RI SCM (8/03)	RI	06/05/06	Bank Erosion	N/A	N/A	N/A	N/A	none	p High	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
City of Portland Outfalls	various	3.5 to 9.2	various	Tom Roick	IGA for RI SCM (8/03)	RI	06/05/06	Groundwater	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
City of Portland Outfalls	various	3.5 to 9.2	various	Tom Roick	IGA for RI SCM (8/03)	RI	06/05/06	Stormwater	Ongoing	Complete outfall basin characterizations, site-specific investigations and source control, recontamination assessment	Ongoing through 2008 (corresponding to Portland Harbor ROD)	Suspected pathway	p High		Waiting on SCE to be completed.		Final SCM TBD. Ongoing SW inspections, investigations of illicit discharges, identification of potential contributors to City system. Site-specific catch basin cleanouts, line cleaning, and implementation of BMPs							
City of Portland Outfalls	various	3.5 to 9.2	various	Tom Roick	IGA for RI SCM (8/03)	RI	06/05/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
City of Portland Outfalls	various	3.5 to 9.2	various	Tom Roick	IGA for RI SCM (8/03)	RI	06/05/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ACF Industries	794	3.6 W	12160 NW St Helens	Dan Hafley	Unilateral Order (8/00)	FS complete	03/08/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	Low	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ACF Industries	794	3.6 W	12160 NW St Helens	Dan Hafley	Unilateral Order (8/00)	FS complete	03/08/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ACF Industries	794	3.6 W	12160 NW St Helens	Dan Hafley	Unilateral Order (8/00)	FS complete	03/08/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low		SCE submitted to EPA (10/04); no comments		No SCM needed						SCM submitted to EPA (10/04). No comments.	
ACF Industries	794	3.6 W	12160 NW St Helens	Dan Hafley	Unilateral Order (8/00)	FS complete	03/08/06	Stormwater	Completed			Currently insignificant pathway; stormwater pipe suspected past migration pathway	Low		SCE submitted to EPA (10/04); no comments		Completed FS proposes removal of contaminated off-site soil potentially available for transport to river.						SCM submitted to EPA (10/04). No comments.	
ACF Industries	794	3.6 W	12160 NW St Helens	Dan Hafley	Unilateral Order (8/00)	FS complete	03/08/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ACF Industries	794	3.6 W	12160 NW St Helens	Dan Hafley	Unilateral Order (8/00)	FS complete	03/08/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Premier Edible Oils	2013	3.6 E	10400 N Burgard	Mike Romero	PH Agr for RI/SCM (7/01)	RI	06/12/06	Overland Transport/Sheet Flow	Ongoing	Complete final phases of RI	2006	Waiting on SCE to be completed	to be determined	to be determined	Waiting on SCE to be completed. (2006)									
Premier Edible Oils	2013	3.6 E	10400 N Burgard	Mike Romero	PH Agr for RI/SCM (7/01)	RI	06/12/06	Bank Erosion	Ongoing	Complete final phases of RI	2006	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed. (2006)									
Premier Edible Oils	2013	3.6 E	10400 N Burgard	Mike Romero	PH Agr for RI/SCM (7/01)	RI	06/12/06	Stormwater	N/A	N/A	N/A	Facility dismantled and outfalls removed	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Premier Edible Oils	2013	3.6 E	10400 N Burgard	Mike Romero	PH Agr for RI/SCM (7/01)	RI	06/12/06	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Premier Edible Oils	2013	3.6 E	10400 N Burgard	Mike Romero	PH Agr for RI/SCM (7/01)	RI	06/12/06	Groundwater (GW LNAPL -SW Corner)	Ongoing	Complete data collection for SCD design	2006	LNAPL potentially discharging to river	p High		Waiting on SCE to be completed, 2006									
Premier Edible Oils	2013	3.6 E	10400 N Burgard	Mike Romero	PH Agr for RI/SCM (7/01)	RI	06/12/06	Groundwater (Remaining GW Issues)	Ongoing	Coordinate investigation with Time Oil/Bell Terminal near property boundaries	2006	GW suspected migration pathway	to be determined		Waiting on SCE to be completed, 2006									

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Confirmed or suspected **Sources** of contamination to the river								Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)									
Site information					Project status							Basis for determination that source control is needed													
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Premier Edible Oils	2013	3.6 E	10400 N Burgard	Mike Romero	PH Agr for RI/SCM (7/01)	RI	06/12/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Jefferson Smurfit	2371	3.7 E	9930 N Burgard	Matt McClincy	PH Letter Agr for XPA (12/00)	XPA	03/06/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	Low	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Jefferson Smurfit	2371	3.7 E	9930 N Burgard	Matt McClincy	PH Letter Agr for XPA (12/00)	XPA	03/06/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Jefferson Smurfit	2371	3.7 E	9930 N Burgard	Matt McClincy	PH Letter Agr for XPA (12/00)	XPA	03/06/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented, 10/2002		No SCM needed							
Jefferson Smurfit	2371	3.7 E	9930 N Burgard	Matt McClincy	PH Letter Agr for XPA (12/00)	XPA	03/06/06	Stormwater	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented, 10/2002		No SCM needed							
Jefferson Smurfit	2371	3.7 E	9930 N Burgard	Matt McClincy	PH Letter Agr for XPA (12/00)	XPA	03/06/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Jefferson Smurfit	2371	3.7 E	9930 N Burgard	Matt McClincy	PH Letter Agr for XPA (12/00)	XPA	03/06/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RoMar Realty of Oregon	2437	3.7	9333 N Time Oil	Tom Gainer	PH Ltr Agr for XPA	NFA	06/12/06	Overland Transport/Sheet Flow	Completed			Insignificant pathway; no actions recommended	Low		SCE submitted to EPA (3/06); DEQ responds 4/06									
RoMar Realty of Oregon	2437	3.7	9333 N Time Oil	Tom Gainer	PH Ltr Agr for XPA	NFA	06/12/06	Bank Erosion	Completed			Insignificant pathway; no actions recommended	Low		N/A									
RoMar Realty of Oregon	2437	3.7	9333 N Time Oil	Tom Gainer	PH Ltr Agr for XPA	NFA	06/12/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low		SCE submitted to EPA (3/06); DEQ responds 4/06									
RoMar Realty of Oregon	2437	3.7	9333 N Time Oil	Tom Gainer	PH Ltr Agr for XPA	NFA	06/12/06	Stormwater	Completed			Insignificant pathway; no actions recommended	Low	Low	SCE submitted to EPA (3/06); DEQ responds 4/06									
RoMar Realty of Oregon	2437	3.7	9333 N Time Oil	Tom Gainer	PH Ltr Agr for XPA	NFA	06/12/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RoMar Realty of Oregon	2437	3.7	9333 N Time Oil	Tom Gainer	PH Ltr Agr for XPA	NFA	06/12/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Owens-Corning Fiberglass (Trumbull Asp)	1036	3.8 W	11444 NW St Helens	Tom Gainer	PH Letter Agr for XPA (12/99)	XPA	06/12/06	Overland Transport/Sheet Flow	Ongoing	Visual inspection	Fall 2006	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed; 2006									
Owens-Corning Fiberglass (Trumbull Asp)	1036	3.8 W	11444 NW St Helens	Tom Gainer	PH Letter Agr for XPA (12/99)	XPA	06/12/06	Bank Erosion	Ongoing	Visual inspection	Fall 2006	Waiting on SCE to be completed	p Low		Waiting on SCE to be completed; 2006									
Owens-Corning Fiberglass (Trumbull Asp)	1036	3.8 W	11444 NW St Helens	Tom Gainer	PH Letter Agr for XPA (12/99)	XPA	03/06/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low		Waiting on SCE to be completed; 2006									
Owens-Corning Fiberglass (Trumbull Asp)	1036	3.8 W	11444 NW St Helens	Tom Gainer	PH Letter Agr for XPA (12/99)	XPA	06/12/06	Stormwater	Ongoing	Initiate stormwater evaluation	2007	Waiting on SCE to be completed	to be determined	to be determined	Waiting on SCE to be completed; 2006									
Owens-Corning Fiberglass (Trumbull Asp)	1036	3.8 W	11444 NW St Helens	Tom Gainer	PH Letter Agr for XPA (12/99)	XPA	03/06/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Owens-Corning Fiberglass (Trumbull Asp)	1036	3.8 W	11444 NW St Helens	Tom Gainer	PH Letter Agr for XPA (12/99)	XPA	03/06/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Georgia Pacific Linnton	2370	3.9 W	12222 NW Marina	Tom Gainer	PH Letter Agr for XPA (10/99)	XPA	06/12/06	Overland Transport/Sheet Flow	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed in 2000 and did not provide comments		No SCM needed							

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Confirmed or suspected **Sources** of contamination to the river								Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)									
Site information					Project status																				
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Basis for determination that source control is needed			Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
												Pathway determination	Pathway priority level	Site priority level											
Georgia Pacific Linnton	2370	3.9 W	12222 NW Marina	Tom Gainer	PH Letter Agr for XPA (10/99)	XPA	06/12/06	Bank Erosion	N/A	N/A	N/A	N/A	none	Low	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Georgia Pacific Linnton	2370	3.9 W	12222 NW Marina	Tom Gainer	PH Letter Agr for XPA (10/99)	XPA	06/12/06	Groundwater	Completed				Low		EPA reviewed in 2000 and did not provide comments	NA	No SCM needed	NA	NA	NA	NA	NA	NA	N/A
Georgia Pacific Linnton	2370	3.9 W	12222 NW Marina	Tom Gainer	PH Letter Agr for XPA (10/99)	XPA	06/12/06	Stormwater	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Georgia Pacific Linnton	2370	3.9 W	12222 NW Marina	Tom Gainer	PH Letter Agr for XPA (10/99)	XPA	06/12/06	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Georgia Pacific Linnton	2370	3.9 W	12222 NW Marina	Tom Gainer	PH Letter Agr for XPA (10/99)	XPA	06/12/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NW Pipe	138	3.9 E	12005 N Burgard	Mike Romero	PH Agr for RI/SCM (2/05)	RI	06/12/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	to be determined	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NW Pipe	138	3.9 E	12005 N Burgard	Mike Romero	PH Agr for RI/SCM (2/05)	RI	06/12/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NW Pipe	138	3.9 E	12005 N Burgard	Mike Romero	PH Agr for RI/SCM (2/05)	RI	06/12/06	Groundwater	Ongoing	DEQ to complete review of SCE report prepared by RP	2006	GW suspected migration pathway	to be determined		Waiting on SCE to be completed 2006									
NW Pipe	138	3.9 E	12005 N Burgard	Mike Romero	PH Agr for RI/SCM (2/05)	RI	06/12/06	Stormwater	Ongoing	DEQ to complete review of SCE report prepared by RP	2006	SW suspected migration pathway	to be determined		Waiting on SCE to be completed 2006									
NW Pipe	138	3.9 E	12005 N Burgard	Mike Romero	PH Agr for RI/SCM (2/05)	RI	06/12/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NW Pipe	138	3.9 E	12005 N Burgard	Mike Romero	PH Agr for RI/SCM (2/05)	RI	06/12/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Linnton Oil Fire Training Grounds	1189	4	NW Marina Way	Tom Gainer	IGA	NFA	03/02/06	Overland Transport/Sheet Flow	Completed			Insignificant pathway; no actions recommended	Low	Low	Complete									
Linnton Oil Fire Training Grounds	1189	4	NW Marina Way	Tom Gainer	IGA	NFA	03/02/06	Bank Erosion	Completed			Insignificant pathway; no actions recommended	Low		Complete									
Linnton Oil Fire Training Grounds	1189	4	NW Marina Way	Tom Gainer	IGA	NFA	03/02/06	Groundwater	Completed			Currently no complete pathway; groundwater monitoring to confirm plume stability	Low		Complete									Annual groundwater monitoring (conditional NFA)
Linnton Oil Fire Training Grounds	1189	4	NW Marina Way	Tom Gainer	IGA	NFA	03/02/06	Stormwater	Completed			Insignificant pathway; no actions recommended	Low		Complete									
Linnton Oil Fire Training Grounds	1189	4	NW Marina Way	Tom Gainer	IGA	N/A	03/02/06	Overwater Activities	N/A	N/A	N/A	No known current sources (spills will be reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Linnton Oil Fire Training Grounds	1189	4	NW Marina Way	Tom Gainer	IGA	N/A	03/02/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schnitzer Burgard	2355	4.1 E	12005 N Burgard	Mike Romero	PH Agr for RI/CSM (3/00)	RI	06/12/06	Overland Transport/Sheet Flow	Not Started	To be determined	2006	Waiting on SCE to be completed	to be determined	to be determined	Waiting on SCE to be complete		Likely pier engineering improvements to capture sheet flow stormwater							
Schnitzer Burgard	2355	4.1 E	12005 N Burgard	Mike Romero	PH Agr for RI/CSM (3/00)	RI	06/12/06	Bank Erosion	Ongoing	Additional sampling needed	2006	Waiting on SCE to be completed	to be determined		Waiting on SCE to be complete									
Schnitzer Burgard	2355	4.1 E	12005 N Burgard	Mike Romero	PH Agr for RI/CSM (3/00)	RI	06/12/06	Groundwater	Ongoing	ongoing monitoring	2006	Waiting on SCE to be completed	to be determined		Waiting on SCE to be complete									
Schnitzer Burgard	2355	4.1 E	12005 N Burgard	Mike Romero	PH Agr for RI/CSM (3/00)	RI	06/12/06	Stormwater	Ongoing	ongoing monitoring - engineering improvements have been built.	2006	Waiting on SCE to be completed	to be determined		Waiting on SCE to be complete		RP developing & implementing BMPs for stormwater. Others yet to be determined							
Schnitzer Burgard	2355	4.1 E	12005 N Burgard	Mike Romero	PH Agr for RI/CSM (3/00)	RI	06/12/06	Overwater Activities	Not Started	To be determined	2006	Waiting on SCE to be completed	to be determined		Waiting on SCE to be complete									
Schnitzer Burgard	2355	4.1 E	12005 N Burgard	Mike Romero	PH Agr for RI/CSM (3/00)	RI	06/12/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Confirmed or suspected **Sources** of contamination to the river								Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site information					Project status							Basis for determination that source control is needed												
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Kinder Morgan (Aka GATX)	1096	4.2 W	11400 NW St Helens	Mike Romero	PH Agr for RI/SCM (6/00)	RI	06/12/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	p High	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Kinder Morgan (Aka GATX)	1096	4.2 W	11400 NW St Helens	Mike Romero	PH Agr for RI/SCM (6/00)	RI	06/12/06	Bank Erosion	Ongoing	To be determined	2006	Waiting on SCE to be completed	to be determined		Waiting on SCE to be complete									
Kinder Morgan (Aka GATX)	1096	4.2 W	11400 NW St Helens	Mike Romero	PH Agr for RI/SCM (6/00)	RI	06/12/06	Groundwater	Ongoing	Complete nature & extent in RI; RP will conduct IRAM effectiveness evaluation	2006	LNAPL seeps on shoreline and dissolve petroleum likely discharging to river	p High		Waiting on SCE to be complete		Interim LNAPL removal and groundwater pump and treat system in operation							
Kinder Morgan (Aka GATX)	1096	4.2 W	11400 NW St Helens	Mike Romero	PH Agr for RI/SCM (6/00)	RI	06/12/06	Stormwater	Ongoing	Initiate evaluation	2006-07	Waiting on SCE to be completed	to be determined		Waiting on SCE to be complete									
Kinder Morgan (Aka GATX)	1096	4.2 W	11400 NW St Helens	Mike Romero	PH Agr for RI/SCM (6/00)	RI	06/12/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Kinder Morgan (Aka GATX)	1096	4.2 W	11400 NW St Helens	Mike Romero	PH Agr for RI/SCM (6/00)	RI	06/12/06	Other	Ongoing	GW treatment system & oil/water separator on NPDES - Evaluate existing data set	2006	Waiting on SCE to be completed	p Low		Waiting on SCE to be complete									
Terminal 4 Slip 1	2356	4.3 E	11040 N Lombard	Tom Gainer	PH Agr for RI/SCE	RI	03/06/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Terminal 4 Slip 1	2356	4.3 E	11040 N Lombard	Tom Gainer	PH Agr for RI/SCE	RI	06/12/06	Bank Erosion	Pending EPA Review	SCM necessary; coordinate with T4 Early Action	SOW under development, due 2006	Pathway is complete	p High		Waiting on SCE to be completed	schedule for completing draft evaluation report: fall 2006								
Terminal 4 Slip 1	2356	4.3 E	11040 N Lombard	Tom Gainer	PH Agr for RI/SCE	RI	06/12/06	Groundwater	Ongoing	RI data review	Fall 2006	Preliminary determination that pathway is insignificant	p Low	p High	Waiting on SCE to be completed									
Terminal 4 Slip 1	2356	4.3 E	11040 N Lombard	Tom Gainer	PH Agr for RI/SCE	RI	06/12/06	Stormwater	Ongoing	Evaluation report due 6/06	SOW under development, due 2006	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed									
Terminal 4 Slip 1	2356	4.3 E	11040 N Lombard	Tom Gainer	PH Agr for RI/SCE	RI	03/06/06	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Terminal 4 Slip 1	2356	4.3 E	11040 N Lombard	Tom Gainer	PH Agr for RI/SCE	RI	03/06/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Linnton Plywood	2373	4.6 W	10504 NW St Helens	Matt McClincy	PH Letter Agr for XPA (3/01)	XPA completed	03/13/06	Overland Transport/Sheet Flow	Completed			SCM addressed this potentially complete pathway	Low		EPA reviewed and commented		Independent removal of two small upland source areas and offsite disposal in 2002 and 2003						Received review 8/29/03	
Linnton Plywood	2373	4.6 W	10504 NW St Helens	Matt McClincy	PH Letter Agr for XPA (3/01)	XPA completed	03/13/06	Bank Erosion	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented		No SCM needed						Received review 8/29/03	
Linnton Plywood	2373	4.6 W	10504 NW St Helens	Matt McClincy	PH Letter Agr for XPA (3/01)	XPA completed	03/13/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low	Low	EPA reviewed and commented		No SCM needed						Received review 8/29/03	
Linnton Plywood	2373	4.6 W	10504 NW St Helens	Matt McClincy	PH Letter Agr for XPA (3/01)	XPA completed	03/13/06	Stormwater	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented		Ongoing Stormwater BMPs and monitoring						Received review 8/29/03	
Linnton Plywood	2373	4.6 W	10504 NW St Helens	Matt McClincy	PH Letter Agr for XPA (3/01)	XPA completed	03/13/06	Overwater Activities	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented		No SCM needed						Received review 8/29/03	
Linnton Plywood	2373	4.6 W	10504 NW St Helens	Matt McClincy	PH Letter Agr for XPA (3/01)	XPA completed	03/13/06	Other	N/A	N/A	N/A	N/A	none		N/A		N/A						N/A	
Terminal 4 Slip 3	272	4.6 E	10400 Lombard	Tom Roick	Judgment for RD/RA (4/04)	RD/RA	06/07/06	Overland Transport/Sheet Flow	N/A	N/A - see Bank Erosion and Stormwater pathways	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Terminal 4 Slip 3	272	4.6 E	10400 Lombard	Tom Roick	Judgment for RD/RA (4/04)	RD/RA	06/07/06	Bank Erosion	Ongoing	Pencil pitch investigation at the "River Bank Area" and "Slip Bank Area"	Pencil Pitch Report submitted 5/06, additional work required TBD	Pencil pitch observed and PAHs detected in river bank soils above PECs	p Low		Waiting on SCE to be completed									

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Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor

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Confirmed or suspected **Sources** of contamination to the river								Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site information					Project status							Basis for determination that source control is needed												
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Terminal 4 Slip 3	272	4.6 E	10400 Lombard	Tom Roick	Judgment for RD/RA (4/04)	RD/RA	06/07/06	Groundwater	Completed			Complete pathway - remedy recommended and implemented	p High	p High	EPA reviewed and commented, 2/2003		Bank excavation and backfill remedial action, NAPL recovery, monitoring	EPA reviewed and commented, 2/2003	Bank excavation and backfill remedial action (BEBRA) 11/04	2,700 cubic yards of contaminated soil removed; 30.2 gallons NAPL recovered to date	NAPL recovery and monitoring ongoing			
Terminal 4 Slip 3	272	4.6 E	10400 Lombard	Tom Roick	Judgment for RD/RA (4/04)	RD/RA	06/07/06	Stormwater	Ongoing	Source Control Evaluation to be submitted 6/06		Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed									
Terminal 4 Slip 3	272	4.6 E	10400 Lombard	Tom Roick	Judgment for RD/RA (4/04)	RD/RA	06/07/06	Overwater Activities	N/A	N/A - Historic releases to be addressed by the in-water T4 Early Action	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Terminal 4 Slip 3	272	4.6 E	10400 Lombard	Tom Roick	Judgment for RD/RA (4/04)	RD/RA	06/07/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
UPRR St Johns Tank Farm	2017	4.6 E	6908 N Roberts	Tom Roick	Pre-PH VCP Letter Agr	NFA	03/07/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
UPRR St Johns Tank Farm	2017	4.6 E	6908 N Roberts	Tom Roick	Pre-PH VCP Letter Agr	NFA	03/07/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
UPRR St Johns Tank Farm	2017	4.6 E	6908 N Roberts	Tom Roick	Pre-PH VCP Letter Agr	NFA	03/07/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low	Low	SCE submitted to EPA April 2004, no comments received		No SCM needed						SCM submitted to EPA April 2004, no comments received	
UPRR St Johns Tank Farm	2017	4.6 E	6908 N Roberts	Tom Roick	Pre-PH VCP Letter Agr	NFA	03/07/06	Stormwater	Completed			Insignificant pathway; no actions recommended	Low		SCE submitted to EPA April 2004, no comments received		No SCM needed							
UPRR St Johns Tank Farm	2017	4.6 E	6908 N Roberts	Tom Roick	Pre-PH VCP Letter Agr	NFA	03/07/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
UPRR St Johns Tank Farm	2017	4.6 E	6908 N Roberts	Tom Roick	Pre-PH VCP Letter Agr	NFA	03/07/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Port of Portland Auto Storage Area (ASA)	2642	5.0 E	10400 Lombard	Tom Gainer	Pre-PH DEQ/Port IGA (11/00)	NFA	03/06/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Port of Portland Auto Storage Area (ASA)	2642	5.0 E	10400 Lombard	Tom Gainer	Pre-PH DEQ/Port IGA (11/00)	NFA	03/06/06	Bank Erosion	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented 6/04		No SCM needed							
Port of Portland Auto Storage Area (ASA)	2642	5.0 E	10400 Lombard	Tom Gainer	Pre-PH DEQ/Port IGA (11/00)	NFA	03/06/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low	Low	EPA reviewed and commented 6/04		No SCM needed							
Port of Portland Auto Storage Area (ASA)	2642	5.0 E	10400 Lombard	Tom Gainer	Pre-PH DEQ/Port IGA (11/00)	NFA	03/06/06	Stormwater	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented 6/04		No SCM needed							
Port of Portland Auto Storage Area (ASA)	2642	5.0 E	10400 Lombard	Tom Gainer	Pre-PH DEQ/Port IGA (11/00)	NFA	03/06/06	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Port of Portland Auto Storage Area (ASA)	2642	5.0 E	10400 Lombard	Tom Gainer	Pre-PH DEQ/Port IGA (11/00)	NFA	03/06/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Exxon Mobil	137	5.1 W	9420 NW St Helens	Matt McClincy	VCP Agr for Remedial Action (5/02)	RD/RA	06/12/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Exxon Mobil	137	5.1 W	9420 NW St Helens	Matt McClincy	VCP Agr for Remedial Action (5/02)	RD/RA	06/12/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Exxon Mobil	137	5.1 W	9420 NW St Helens	Matt McClincy	VCP Agr for Remedial Action (5/02)	RD/RA	06/12/06	Groundwater	Completed			Groundwater is a complete pathway	High	High	DEQ issued a ROD in 1997 requiring groundwater treatment	DEQ issued a ROD in 1997 requiring groundwater treatment	Operating air sparge & SVE system. Expansion of air sparge system (1/2005) - RP has 1 yr. to demonstrate protectiveness.	Possibility only if remedy is shown not to be protective and alternative remedial action is proposed	Operating air sparge & SVE system. Expansion of air sparge system (1/2005) - RP has 1 yr. to demonstrate protectiveness.					Sytem inspection , opertion, and effectiveness monitoring ongoing
Exxon Mobil	137	5.1 W	9420 NW St Helens	Matt McClincy	VCP Agr for Remedial Action (5/02)	RD/RA	06/12/06	Stormwater	Ongoing	implementing the SCE statement of work	SOW under development, due 2006	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed, 2006									

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Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor

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Confirmed or suspected **Sources** of contamination to the river								Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site information					Project status							Basis for determination that source control is needed												
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Exxon Mobil	137	5.1 W	9420 NW St Helens	Matt McClincy	VCP Agr for Remedial Action (5/02)	RD/RA	06/12/06	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Exxon Mobil	137	5.1 W	9420 NW St Helens	Matt McClincy	VCP Agr for Remedial Action (5/02)	RD/RA	06/12/06	Other - current NPDES permitted discharge	Not Started	To be determined	No current schedule	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed.									
Oilympic Pipeline Portland *Facility within* ExxonMobil	3342	5.2W	9420 NW St Helens	Matt McClincy	ICP	XPA	06/12/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Oilympic Pipeline Portland Facility within ExxonMobil	3342	5.2W	9420 NW St Helens	Matt McClincy	ICP	XPA	06/12/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Oilympic Pipeline Portland Facility within ExxonMobil	3342	5.2W	9420 NW St Helens	Matt McClincy	ICP	XPA	06/12/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low	to be determined	Waiting on SCE completion; 2007		Conducted soil removal following petroleum spill in mid 1990s							
Oilympic *Pipeline* Portland Facility within ExxonMobil	3342	5.2W	9420 NW St Helens	Matt McClincy	ICP	XPA	06/12/06	Stormwater	Ongoing	Dependent upon groundwater conditions	2007	Waiting on SCE to be completed.	to be determined		Waiting on SCE completion; 2007									
Oilympic Pipeline Portland *Facility within* ExxonMobil	3342	5.2W	9420 NW St Helens	Matt McClincy	ICP	XPA	06/12/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Oilympic Pipeline Portland Facility within ExxonMobil	3342	5.2W	9420 NW St Helens	Matt McClincy	ICP	XPA	06/12/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BP Terminal 22T *(ARCO)*	1528	5.3 W	9930 NW St *Helens*	Tom *Gainer*	PH Agr for RI/SCM (6/00)	RI	03/06/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BP Terminal 22T (ARCO)	1528	5.3 W	9930 NW St Helens	Tom Gainer	PH Agr for RI/SCM (6/00)	RI	03/06/06	Bank Erosion	N/A	No Bank -concrete sea wall	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BP Terminal 22T (ARCO)	1528	5.3 W	9930 NW St Helens	Tom Gainer	PH Agr for RI/SCM (6/00)	RI	06/12/06	Groundwater	Ongoing	Investigation of GW on adjacent property	Fall 2006	Free product & dissolved phase potentially reaching river	p High	p High	Waiting on SCE to be completed	alternatives evaluation completed 7/2004 for on site GW	Hydraulic control and GW pump & treat system	SCD submitted to EPA 6/2004, no comments received	Hydraulic Control system installed 1/2005	700 linear feet of plume controlled at riverbank	Additional sheetpile barrier wall proposed for fall 2006 installation	ongoing		effectiveness monitonng
BP Terminal 22T (ARCO)	1528	5.3 W	9930 NW St Helens	Tom Gainer	PH Agr for RI/SCM (6/00)	RI	06/12/06	Stormwater	Ongoing	Sampling stormwater system	Fall 2006	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed. 2006									
BP Terminal 22T (ARCO)	1528	5.3 W	9930 NW St Helens	Tom Gainer	PH Agr for RI/SCM (6/00)	RI	03/06/06	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BP Terminal 22T (ARCO)	1528	5.3 W	9930 NW St Helens	Tom Gainer	PH Agr for RI/SCM (6/00)	RI	03/06/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mar Com Marine (N Parcel)	2350	5.6 E	8790 N Bradford	Mike Romero	PH Agr for RI/SCM (11/01)	RD/RA	06/12/06	Overland Transport/Sheet Flow	Completed			overland soil transport suspected migration pathway	Medium		EPA reviewed and commented 2004	alternatives evaluation completed in 2004	removal of 20 cubic yards of sandblast grit and soil; DEQ issues SCD in 5/2004	EPA reviewed and approved 2004	none yet		no current schedule; RP went bankrupt; potential future owner will conduct source control work			
Mar Com Marine (N Parcel)	2350	5.6 E	8790 N Bradford	Mike Romero	PH Agr for RI/SCM (11/01)	RD/RA	06/12/06	Bank Erosion	Not Started	To be determined	No current schedule	Deferred investigation to Mar Com South Parcel	to be determined		Waiting on SCE to be completed		Deferred investigation to Mar Com South Parcel							

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Confirmed or suspected **Sources** of contamination to the river																						
Site information					Project status			Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Basis for determination that source control is needed			Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
												Pathway determination	Pathway priority level	Site priority level										
Mar Com Marine (N Parcel)	2350	5.6 E	8790 N Bradford	Mike Romero	PH Agr for RI/SCM (11/01)	RD/RA	06/12/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low	*Medium*	EPA reviewed and commented 2004		N/A						
Mar Com Marine (N Parcel)	2350	5.6 E	8790 N Bradford	Mike Romero	PH Agr for RI/SCM (11/01)	RD/RA	06/12/06	Stormwater	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented 2004		N/A						
Mar Com Marine (N Parcel)	2350	5.6 E	8790 N Bradford	Mike Romero	PH Agr for RI/SCM (11/01)	RD/RA	06/12/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mar Com Marine (N Parcel)	2350	5.6 E	8790 N Bradford	Mike Romero	PH Agr for RI/SCM (11/01)	RD/RA	06/12/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Brix Maritime (aka Foss)	2364	5.7 W	9030 NW St Helens	Dana Bayuk	PH Agr for RI/SCM (5/02)	RI	06/12/06	Overland Transport/Sheet Flow	N/A	N/A, releases from USTs, site is entirely paved and/or developed	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Brix Maritime (aka Foss)	2364	5.7 W	9030 NW St Helens	Dana Bayuk	PH Agr for RI/SCM (5/02)	RI	06/12/06	Bank Erosion	N/A	N/A, releases from USTs, heavily armored with rip-rap, no significant habitat	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Brix Maritime (aka Foss)	2364	5.7 W	9030 NW St Helens	Dana Bayuk	PH Agr for RI/SCM (5/02)	RI	06/12/06	Groundwater	Ongoing	Continue monitoring; compile available site data for RI and source control evaluation	2006	Pathway is complete	to be determined	to be determined	Waiting on SCE to be completed.									
Brix Maritime (aka Foss)	2364	5.7 W	9030 NW St Helens	Dana Bayuk	PH Agr for RI/SCM (5/02)	RI	06/12/06	Stormwater	N/A	N/A, relases from USTs, BMPs have been implemented, City does not require storm water permit	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Brix Maritime (aka Foss)	2364	5.7 W	9030 NW St Helens	Dana Bayuk	PH Agr for RI/SCM (5/02)	RI	06/12/06	Overwater Activities	N/A	N/A	N/A	No known current sources (spills will be reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Brix Maritime (aka Foss)	2364	5.7 W	9030 NW St Helens	Dana Bayuk	PH Agr for RI/SCM (5/02)	RI	06/12/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mar Com (S Parcel)	2350	5.8 E	8790 N Bradford	Mike Romero	Negotiating PH Agr	RI	06/12/06	Overland Transport/Sheet Flow	Ongoing	Overland flows down concrete shipway and across large unpaved site areas need to be investigated	2006	Waiting on SCE to be completed	to be determined	to be determined	Waiting on SCE to be completed in 2006									
Mar Com (S Parcel)	2350	5.8 E	8790 N Bradford	Mike Romero	Negotiating PH Agr	RI	06/12/06	Bank Erosion	Ongoing	Investigation must include North Parcel bank and beach	2006	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed in 2006									
Mar Com (S Parcel)	2350	5.8 E	8790 N Burgard	Mike Romero	Negotiating PH Agr	RI	06/12/06	Groundwater	Ongoing	Need to determine N&E in RI	2006	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed in 2006									
Mar Com (S Parcel)	2350	5.8 E	8790 N Bradford	Mike Romero	Negotiating PH Agr	RI	06/12/06	Stormwater	Ongoing	Need to determine N&E in RI	early 2007	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed in 2006									
Mar Com (S Parcel)	2350	5.8 E	8790 N Bradford	Mike Romero	Negotiating PH Agr	RI	06/12/06	Overwater Activities	Ongoing	Need to complete N&E in RI; refers to historic overwater activities	2006	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed in 2006		Floating dry dock sold in 2004, and removed from site							
Mar Com (S Parcel)	2350	5.8 E	8790 N Bradford	Mike Romero	Negotiating PH Agr	RI	06/12/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Marine Finance	2352	5.8 W	8444 NW St Helens	Mark Pugh	PPA	RD/RA	06/06/06	Overland Transport/Sheet Flow	Completed			contaminated over screening criteria in soil potentially susceptible to runoff	Low		SCE submitted to EPA 9/30/04. No comments received.	alternatives evaluation completed 2004	Dig and haul soil contamination; capping with clean fill and/or building	SCM submitted to EPA 9/2004, no comments received	Soil removed 08/05; selected site areas capped with building and/or clean fill	1,150 cubic yards of soil removed (estimated); report pending	complete, report pending	11/05	SCM completion report pending; spring 2007	Institutional control for cap and building will be required.
Marine Finance	2352	5.8 W	8444 NW St Helens	Mark Pugh	PPA	RD/RA	06/06/06	Bank Erosion	Completed			Insignificant pathway; no actions recommended	Low		SCE submitted to EPA 9/30/04. No comments received.	alternatives evaluation completed 2004	No SCM needed							

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Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor

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Confirmed or suspected **Sources** of contamination to the river								Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site information					Project status							Basis for determination that source control is needed												
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Marine Finance	2352	5.8 W	8444 NW St Helens	Mark Pugh	PPA	RD/RA	06/06/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low	Low	SCE submitted to EPA 9/30/04. No comments received.	alternatives evaluation completed 2004	No SCM needed							
Marine Finance	2352	5.8 W	8444 NW St Helens	Mark Pugh	PPA	RD/RA	06/06/06	Stormwater	Ongoing	Quarterly Storm water sampling beginning 6/06	Dec 2006	No current system; new system to be installed. PPA requires 1 year of monitoring	p Low		N/A		No current system; new system to be installed. PPA requires 1 year of 1/4ly monitoring.				Storm drain system to be installed in spring/summer 2006; minimum 3 storm water sampling events will be required following installation.		SCA to be submitted in fall/winter 2006	
Marine Finance	2352	5.8 W	8444 NW St Helens	Mark Pugh	PPA	RD/RA	06/06/06	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Marine Finance	2352	5.8 W	8444 NW St Helens	Mark Pugh	PPA	RD/RA	06/06/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
US Moorings	1641	6.2	8010 NW St. Helens Rd.	EPA lead; Kristine Koch	AOC	RI	03/15/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	to be determined	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
US Moorings	1641	6.2	8010 NW St. Helens Rd.	EPA lead; Kristine Koch	AOC	RI	03/15/06	Bank Erosion	Ongoing		2007	Waiting on SCE to be completed	to be determined		Waiting on SCE completion, 2007									
US Moorings	1641	6.2	8010 NW St. Helens Rd.	EPA lead; Kristine Koch	AOC	RI	03/15/06	Groundwater	Ongoing		2007	Waiting on SCE to be completed	to be determined		Waiting on SCE completion, 2007									
US Moorings	1641	6.2	8010 NW St. Helens Rd.	EPA lead; Kristine Koch	AOC	RI	03/15/06	Stormwater	Ongoing		2007	Waiting on SCE to be completed	to be determined		Waiting on SCE completion, 2007									
US Moorings	1641	6.2	8010 NW St. Helens Rd	EPA lead; Kristine Koch	AOC	RI	03/15/06	Overwater Activities	Ongoing		2007	Waiting on SCE to be completed	to be determined		Waiting on SCE completion, 2007									
US Moorings	1641	6.2	8010 NW St. Helens Rd.	EPA lead; Kristine Koch	AOC	RI	03/15/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Crawford Street Corp	2363	6.3 E	84248 N Crawford	Tom Gainer	PH Letter Agr for XPA (11/99)	XPA	06/12/06	Overland Transport/Sheet Flow	Ongoing	See Stormwater Pathway	No current schedule	Waiting on SCE to be completed	to be determined	to be determined	Waiting on SCE completion									
Crawford Street Corp	2363	6.3 E	84248 N Crawford	Tom Gainer	PH Letter Agr for XPA (11/99)	XPA	06/12/06	Bank Erosion	Ongoing	To be determined	No current schedule	Waiting on SCE to be completed	to be determined		To be determined		RP removed black sand from beach and bank in 10/01. Residual contamination exists on beach. Bank was replaced with clean fill.							
Crawford Street Corp	2363	6.3 E	84248 N Crawford	Tom Gainer	PH Letter Agr for XPA (11/99)	XPA	03/06/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low		Waiting on SCE completion									
Crawford Street Corp	2363	6.3 E	84248 N Crawford	Tom Gainer	PH Letter Agr for XPA (11/99)	XPA	06/12/06	Stormwater	Ongoing	Storm water sampling per JSCS	No current schedule	Waiting on SCE to be completed	to be determined		Waiting on SCE completion									
Crawford Street Corp	2363	6.3 E	84248 N Crawford	Tom Gainer	PH Letter Agr for XPA (11/99)	XPA	03/06/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Crawford Street Corp	2363	6.3 E	84248 N Crawford	Tom Gainer	PH Letter Agr for XPA (11/99)	XPA	03/06/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gasco (NW Natural)	84	6.4 W	7900 NW St Helens	position currently vacant	Pre-PH VCP Agr for RI/FS (8/94)	RI	03/06/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gasco (NW Natural)	84	6.4 W	7900 NW St Helens	position currently vacant	Pre-PH VCP Agr for RI/FS (8/94)	RI	03/06/06	Bank Erosion	Ongoing	Coordinate Bank Source Control with anticipated in-water action	To be determined	Pathway is complete	p High		Waiting on SCE to be completed									

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7/3/2006

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Confirmed or suspected **Sources** of contamination to the river								Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site information					Project status							Basis for determination that source control is needed												
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Gasco (NW Natural)	84	6.4 W	7900 NW St Helens	position currently vacant	Pre-PH VCP Agr for RI/FS (8/94)	RI	03/06/06	Groundwater	Completed			Pathway is complete	High	High	Waiting on SCE to be completed.	Field Pilot 2006/Source Control Alternatives Evaluation March 2007								
Gasco (NW Natural)	84	6.4 W	7900 NW St Helens	position currently vacant	Pre-PH VCP Agr for RI/FS (8/94)	RI	03/06/06	Stormwater	Ongoing	Complete stormwater system evaluation and sampling	Winter 2006	Pathway is complete	to be determined		Waiting on SCE to be completed.									
Gasco (NW Natural)	84	6.4 W	7900 NW St Helens	position currently vacant	Pre-PH VCP Agr for RI/FS (8/94)	RI	03/06/06	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gasco (NW Natural)	84	6.4 W	7900 NW St Helens	position currently vacant	Pre-PH VCP Agr for RI/FS (8/94)	RI	03/06/06	Other NPDES Permit	Ongoing	Review draft permit standards	July 2006	Pathway is complete	to be determined		Waiting on SCE to be completed.									
Gasco (Siltronic Operable Unit).	183	6.6 W	7700 NW Front	Matt McClincy	Joint Order NW Natural and Wacker Siltronic (10/00)	RI	06/12/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gasco (Siltronic Operable Unit).	183	6.6 W	7700 NW Front	Matt McClincy	Joint Order NW Natural and Wacker Siltronic (10/00)	RI	06/12/06	Bank Erosion	Ongoing	Additional investigation and assessment	Winter 2006	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed									
Gasco (Siltronic Operable Unit).	183	6.6 W	7700 NW Front	Matt McClincy	Joint Order NW Natural and Wacker Siltronic (10/00)	RI	06/12/06	Groundwater	Completed	Upland evaluation for manufactured gas plant waste is ongoing to support SCM alternatives evaluation		Pathway is complete	High		Waiting on SCM alternatives evaluation to be completed, 2007	Field Pilot 2006/Source Control Alternatives Evaluation March 2007								
Gasco (Siltronic Operable Unit).	183	6.6 W	7700 NW Front	Matt McClincy	Joint Order NW Natural and Wacker Siltronic (10/00)	RI	06/12/06	Stormwater	Ongoing	Complete formal analysis of sampling results.	Fall 2006	Waiting on SCE to be completed	p Low	High	Waiting on SCE to be completed, 2006									
Gasco (Siltronic Operable Unit).	183	6.6 W	7700 NW Front	Matt McClincy	Joint Order NW Natural and Wacker Siltronic (10/00)	RI	06/12/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gasco (Siltronic Operable Unit).	183	6.6 W	7700 NW Front	Matt McClincy	Joint Order NW Natural and Wacker Siltronic (10/00)	RI	06/12/06	Other -Doane Creek	Ongoing	Doane creek investigation ongoing	Summer 2006	Pathway is complete	p Med		Waiting on SCE to be completed, 2006									
Gasco (Siltronic Operable Unit).	183	6.6 W	7700 NW Front	Matt McClincy	Joint Order Issued to NW Natural and Wacker Siltronic (10/00)	RI	06/12/06	Other- NPDES permit	Completed			Pathway is complete	Low		Waiting on SCE to be completed, 2006									
Siltronic Corp. TCE Investigation	183	6.5 W	7200 NW Front	Dana Bayuk	VCP Order (2/04)	RI	06/12/06	Overland Transport/Sheet Flow	N/A	N/A, subsurface releases from UST system	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Siltronic Corp. TCE Investigation	183	6.5 W	7200 NW Front	Dana Bayuk	VCP Order (2/04)	RI	06/12/06	Bank Erosion	N/A	N/A, subsurface releases from UST system	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Siltronic Corp. TCE Investigation	183	6.5 W	7200 NW Front	Dana Bayuk	VCP Order (2/04)	RI	06/12/06	Groundwater	Ongoing	Complete uplands RI and source control evaluation	2006	Pathway is complete	p High	p High	Waiting on SCE to be completed	schedule for completing draft evaluation report projected for Winter 2006	Final SCMs TBD. interim SCM pilot study (enhanced bioremediation) initiated 5/06							
Siltronic Corp. TCE Investigation	183	6.5 W	7200 NW Front	Dana Bayuk	VCP Order (2/04)	RI	06/12/06	Stormwater	Ongoing	Site storm water system evalution, including data compilation and sampling	2006	Contaminated river sediments near northern facility outfall (Area 2)	to be determined		Waiting on SCE to be completed									
Siltronic Corp. TCE Investigation	183	6.5 W	7200 NW Front	Dana Bayuk	VCP Order (2/04)	RI	06/12/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Siltronic Corp. TCE Investigation	183	6.5 W	7200 NW Front	Dana Bayuk	VCP Order (2/04)	RI	06/12/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Willamette Cove	2066	6.8 E	Foot of N Edgewater	Kevin Parrett	PH Agr for RI/SCM (11/00)	RI	03/09/06	Overland Transport/Sheet Flow	Completed			Insignificant pathway, no actions recommended	Low		Waiting on SCE to be completed, 2006									

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Site information					Project status							Basis for determination that source control is needed												
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Willamette Cove	2066	6.8 E	Foot of N Edgewater	Kevin Parrett	PH Agr for RI/SCM (11/00)	RI	03/09/06	Bank Erosion	Ongoing	Complete bank sampling	2006	Suspected migration pathway	to be determined	to be determined	Waiting on SCE to be completed, 2006									
Willamette Cove	2066	6.8 E	Foot of N Edgewater	Kevin Parrett	PH Agr for RI/SCM (11/00)	RI	03/09/06	Groundwater	Ongoing	Continue groundwater monitoring	2006	Suspected migration pathway	to be determined		Waiting on SCE to be completed, 2006									
Willamette Cove	2066	6.8 E	Foot of N Edgewater	Kevin Parrett	PH Agr for RI/SCM (11/00)	RI	03/09/06	Stormwater	Ongoing	Evaluate potential on-site storm drains	2006	Suspected migration pathway	to be determined		Waiting on SCE to be completed, 2006									
Willamette Cove	2066	6.8 E	Foot of N Edgewater	Kevin Parrett	PH Agr for RI/SCM (11/00)	RI	03/09/06	Overwater Activities	N/A	N/A	N/A	No current source; likely historic sources	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Willamette Cove	2066	6.8 E	Foot of N Edgewater	Kevin Parrett	PH Agr for RI/SCM (11/00)	RI	03/09/06	Other - in river (beach area removal)	Completed			Suspected migration pathway	Medium		EPA reviewed and commented	alternatives evaluation completed 2004	Source removal completed in river 10/2004	deferred to in-water RI						
Rhone Poulenc	155	6.9 W	6200 NW St Helens	Tom Roick	Pre-PH Order for RI (1999)	RI	06/05/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rhone Poulenc	155	6.9 W	6200 NW St Helens	Tom Roick	Pre-PH Order for RI (1999)	RI	06/05/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rhone Poulenc	155	6.9 W	6200 NW St Helens	Tom Roick	Pre-PH Order for RI (1999)	RI	06/05/06	Groundwater (plume discharge to river)	Ongoing	SCE Technical Memorandum submitted 6/06; SCE Report and Alternatives Analysis due	Schedule TBD; work planned for '06-'07	Pathway is complete	p High		Waiting on SCE to be completed	TBD ~'07								
Rhone Poulenc	155	6.9 W	6200 NW St Helens	Tom Roick	Pre-PH Order for RI (1999)	RI	06/05/06	Groundwater (plume discharge to City Outfall 22B)	Completed			Pathway is complete	High	High			Final SCM TBD for groundwater; interim SCMs are line cleaning and sealing storm water line to prevent gw infiltration							
Rhone Poulenc	155	6.9 W	6200 NW St Helens	Tom Roick	Pre-PH Order for RI (1999)	RI	06/05/06	Stormwater	Ongoing	City Outfall 22B & 22C storm drain evaluations	Pending GW SCM for 22B	Waiting on SCE to be completed	p Med		Waiting on SCE to be completed									
Rhone Poulenc	155	6.9 W	6200 NW St Helens	Tom Roick	Pre-PH Order for RI (1999)	RI	06/05/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rhone Poulenc	155	6.9 W	6200 NW St Helens	Tom Roick	Pre-PH Order for RI (1999)	RI	06/05/06	Other - historical drainage ditch	Ongoing	Complete remedial investigation	SCE Technical Memorandum due 5/06	Waiting on SCE to be completed	p Low		Waiting on SCE to be completed									
Rhone Poulenc	155	6.9 W	6200 NW St Helens	Tom Roick	Pre-PH Order for RI (1999)	RI	06/05/06	Other - current NPDES permitted discharge	Ongoing	To be determined	No current schedule	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed.									
McCormick & Baxter	74	7	6900 N Edgewater Street	Kevin Parrett	Superfund agreement with EPA	remedy implemented	03/09/06	Overland Transport/Sheet Flow	Completed			Pathway is complete	High	High	Complete		contaminated soil removal, sheet-pile barrier wall, sediment cap, riparian soil cap, upland soil cap, creosote extraction		all SCMs have been implemented	6,000 gallons of creosote recovered from groundwater, 33,000 tons of contaminated soil and debris removed, 23 acres of contaminated sediment capped, 6 acres of contaminated bank soil capped, 35 acres of contaminated upland soil capped			EPA reviewed and commented.	periodic inspection and maintenance, effectiveness monitoring, site use restrictions
McCormick & Baxter	74	7	6900 N Edgewater Street	Kevin Parrett	Superfund agreement with EPA	remedy implemented	03/09/06	Bank Erosion	Completed			Pathway is complete	High		Complete								EPA reviewed and commented.	
McCormick & Baxter	74	7	6900 N Edgewater Street	Kevin Parrett	Superfund agreement with EPA	remedy implemented	03/09/06	Groundwater	Completed			Pathway is complete	High		Complete								EPA reviewed and commented.	
McCormick & Baxter	74	7	6900 N Edgewater Street	Kevin Parrett	Superfund agreement with EPA	remedy implemented	03/09/06	Stormwater	Completed			Pathway is complete	High		Complete								EPA reviewed and commented.	
McCormick & Baxter	74	7	6900 N Edgewater Street	Kevin Parrett	Superfund agreement with EPA	remedy implemented	03/09/06	Overwater Activites	Completed			Pathway is complete	High		Complete								EPA reviewed and commented.	
McCormick & Baxter	74	7	6900 N Edgewater Street	Kevin Parrett	Superfund agreement with EPA	remedy implemented	03/09/06	Other	N/A			N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Koppers Inc	2348	7	7540 NW St Helens Rd.	Matt McClincy	Part of NW Natural Gasco site; see ESCI #84			Overland Transport/Sheet Flow																
Koppers Inc	2348	7	7540 NW St. Helens Rd.	Matt McClincy				Bank Erosion																
Koppers Inc	2348	7	7540 NW St. Helens Rd.	Matt McClincy				Groundwater																
Koppers Inc	2348	7	7540 NW St. Helens Rd.	Matt McClincy				Stormwater																
Koppers Inc	2348	7	7540 NW St. Helens Rd.	Matt McClincy				Overwater Activities																
Koppers Inc	2348	7	7540 NW St. Helens Rd.	Matt McClincy				Other																

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Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor

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Confirmed or suspected **Sources** of contamination to the river								Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site information					Project status							Basis for determination that source control is needed												
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Arkema	398	7.2 W	6400 NW Front	Matt McClincy	Pre-PH VCP Formal Agr for RI/FS (9/98)	RI	06/12/06	Groundwater (Chlorobenzene/ DDT Plume)	Ongoing	Source control evaluation in preparation	2006	Pathway is complete	p High	p High	Waiting on SCE completion	schedule for completing draft evaluation report, fall 2007 - DNAPL Isolation FFS scheduled August 2006	Final SCM TBD Interim SCM AS/SVE system in-situ chemical oxidation - System shut down June 2006	EPA reviwed and commented on interim SCM (April 2005) - Expect submittal of DNAPL Isolation FFS to EPA August 2006	Interim SCMs include AS/SVE system, initiated in-situ chem-ox treatment					
Arkema	398	7.2 W	6400 NW Front	Matt McClincy	Pre-PH VCP Formal Agr for RI/FS (9/98)	RI	06/12/06	Groundwater (Hexavalent Chromium Plume)	Ongoing	Source control evaluation in preparation	2006	Pathway is complete	p High		Waiting on SCE completion	schedule for completing draft evaluation report, fall 2007	Final SCM TBD Interim SCM in-situ calcium polysulfide treatment underway	EPA reviwed and commented on interim SCM (April 2005)	Interim SCMs include in-situ calcium polysulfide treatment					
Arkema	398	7.2 W	6400 NW Front	Matt McClincy	Pre-PH VCP Formal Agr for RI/FS (9/98)	RI	06/12/06	Groundwater (Perchlorate Plume)	Ongoing	Source control evaluation in preparation	2006	Pathway is complete	p High		Waiting on SCE completion	schedule for completing draft evaluation report, fall 2007	Final SCM TBD proposed field pilot expected 2006		None					
Arkema	398	7.2 W	6400 NW Front	Matt McClincy	Pre-PH VCP Formal Agr for RI/FS (9/98)	RI	06/12/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	p High	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Arkema	398	7.2 W	6400 NW Front	Matt McClincy	Pre-PH VCP Formal Agr for RI/FS (9/98)	RI	06/12/06	Bank Erosion	Ongoing	define boundaries of contaminated bank material	To be determined	River Bank soil contaminant levels exceed action levels	p High		Anticipate integrating with EPA in-water early action process	schedule for completing draft evaluation report, Sept 2007	Timing of SCM to be coordinated with EPA early action.		None					
Arkema	398	7.2 W	6400 NW Front	Matt McClincy	Pre-PH VCP Formal Agr for RI/FS (9/98)	RI	06/12/06	Stormwater	Ongoing	Additoanl characterization data to be collected in 2006	2007	Contaminants in stormwater exceed screening values (AWQC)	p High		EPA review deferred to review of selected SCM	alternatives evaluation in progress, 2007	Final SCMs to be determined		Interim SCMs include BMPs, surface soil removals and surface soil caps					
Arkema	398	7.2 W	6400 NW Front	Matt McClincy	Pre-PH VCP Formal Agr for RI/FS (9/98)	RI	06/12/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Arkema	398	7.2 W	6400 NW Front	Matt McClincy	Pre-PH VCP Formal Agr for RI/FS (9/98)	RI	06/12/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
McCall Oil	134	7.4 W	5550 NW Front	Tom Gainer	PH Agr for RI/CSM (3/00)	RI	03/06/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
McCall Oil	134	7.4 W	5550 NW Front	Tom Gainer	PH Agr for RI/CSM (3/00)	RI	06/12/06	Bank Erosion	Ongoing	RP is conducting RI to determine if SCMs are needed on the bank	RI to be completed in 2006	Preliminary determination that pathway is insignificant	p Low		Waiting on SCE to be completed									
McCall Oil	134	7.4 W	5550 NW Front	Tom Gainer	PH Agr for RI/CSM (3/00)	RI	06/12/06	Groundwater	Ongoing	Continue groundwater monitoring to evaluate shoreline concentrations	Fall 2006	Waiting on SCE to be completed	p Med	to be determined	Waiting on SCE to be completed.									
McCall Oil	134	7.4 W	5550 NW Front	Tom Gainer	PH Agr for RI/CSM (3/00)	RI	06/12/06	Stormwater	Ongoing	Storm water sampling per JSCS	Fall 2006	Waiting on SCE to be completed	p Med		Waiting on SCE to be completed.									
McCall Oil	134	7.4 W	5550 NW Front	Tom Gainer	PH Agr for RI/CSM (3/00)	RI	03/06/06	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
McCall Oil	134	7.4 W	5550 NW Front	Tom Gainer	PH Agr for RI/CSM (3/00)	RI	03/06/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GS Roofing	117	7.5 W	6350 NW Front	Mike Romero	VCP - PH Agr Pending	XPA	03/09/06	Overland Transport/Sheet Flow	Ongoing	XPA complete; RI and SCE to be initiated	SOW under development, due (2006).	Waiting on SCE to be completed	to be determined	to be determined	Waiting on SCE to be completed.									
GS Roofing	117	7.5 W	6350 NW Front	Mike Romero	VCP - PH Agr Pending	XPA	06/12/06	Bank Erosion	Ongoing	XPA complete; RI and SCE to be initiated in RI	SOW under development , due 2006	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed.									
GS Roofing	117	7.5 W	6350 NW Front	Mike Romero	VCP - PH Agr Pending	XPA	06/12/06	Groundwater	Ongoing	XPA complete; RI and SCE to be initiated	SOW under development , due 2006	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed.									
GS Roofing	117	7.5 W	6350 NW Front	Mike Romero	VCP - PH Agr Pending	XPA	06/12/06	Stormwater	Ongoing	XPA complete; RI and SCE to be initiated	SOW under development , due 2006	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed.									

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Confirmed or suspected **Sources** of contamination to the river																							
Site information					Project status			Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
												Basis for determination that source control is needed												
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	*Date last* modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	*Schedule for* completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA *review of SCM* selection decision	SCM activities *completed to date* (m-y)	Mass or volume of *contaminants* controlled	Proposed SCM *activities to be done* and schedule (m-y)	Date SCM completed (m-y)	Status of EPA *review of* completed SCM	Operaton and maintenance requirements
GS Roofing	117	7.5 W	6350 NW Front	Mike Romero	VCP - PH Agr Pending	XPA	06/12/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GS Roofing	117	7.5 W	6350 NW Front	Mike Romero	VCP - PH Agr Pending	XPA	06/12/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Triangle Park (N PDX Yard)	277	7.5 E	5828 N Van Houten	Jim Anderson	Pre-PH PPA for RI/FS (5/97)	RD / RA	03/10/06	Overland Transport/Sheet Flow	Completed			Contaminated soil entrained in stormwater & sheetflow	Medium		EPA reviewed and commented	alternatives evaluation completed, 12/2004	-Dig & haul soil hot spots & ICON/ECON -soil cleanup anticipated to be initiated in '07 after property sale	*Proposed* SCM to EPA 9/04; Received comments 12/04; DEQ responded to comments 2/05	*SCMs anticipated to* be initated after pending property transaction is complete (2007)	Estimated 820cy of soil will be removed & 5,100sy of surface capped	-Dig & haul soil hot spots & ICON/ECON -soil cleanup anticipated to be initiated in '07 after property sale			
Triangle Park (N PDX Yard)	277	7.5 E	5828 N Van Houten	Jim Anderson	Pre-PH PPA for RI/FS (5/97)	FS	03/10/06	Bank Erosion	Completed			Contaminated soil entrained in stormwater & sheetflow	Medium		EPA reviewed and commented	alternatives evaluation completed, 12/2004	-Dig & haul soil hot spots & ICON/ECON -soil cleanup anticipated to be initiated in '07 after *property sale*	Proposed SCM to EPA 9/04; Received comments 12/04; DEQ responded to comments 2/05	SCMs anticipated to be initated after pending property transaction is complete (2007)	A portion of the estimated 820cy of soil to be removed & 5,100sy of surface cappped is in the bank *area*	-Dig & haul soil hot spots & ICON/ECON -soil cleanup anticipated to be initiated in '07 after property sale			
Triangle Park (N PDX Yard)	277	7.5 E	5828 N Van Houten	Dana Bayuk	DEQ Lead (Orphan Account)	RI	06/12/06	Groundwater	Ongoing	Prepare source control evaluation	June 2006	Pathway is complete	p Low	to be determined	Watining on SCE completion								N/A	
Triangle Park (N PDX Yard)	277	7.5 E	5828 N Van Houten	Jim Anderson	Pre-PH PPA for RI/FS (5/97)	FS	03/10/06	Stormwater	Completed			Contaminated soil entrained in stormwater & sheetflow	Medium		EPA reviewed and commented, 12/2004	alternatives evaluation completed, 12/2004	-Dig & haul soil hot spots & ICON/ECON -soil cleanup anticipated to be initiated in '07 after property sale	EPA review completed 12/04	SCMs anticipated to be initated after pending property transaction is complete (2007)	A portion of the estimated 820cy of soil to be removed & 5,100sy of surface cappped is in the bank area	-Dig & haul soil hot spots & ICON/ECON -soil cleanup anticipated to be initiated in '07 after property sale		Proposed SCD to EPA 9/04; Received comments 12/04; DEQ responded to comments 2/05.	
Triangle Park (N PDX Yard)	277	7.5 E	5828 N Van Houten	Jim Anderson	Pre-PH PPA for RI/FS (5/97)	FS	03/10/06	Overwater Activities	N/A			No current overwater activities	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Triangle Park (N PDX Yard)	277	7.5 E	5828 N Van Houten	Jim Anderson	Pre-PH PPA for RI/FS (5/97)	FS	03/10/06	Other - Petroleum pipeline enters at south end of site from beneath the river	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented									
Gould Electronics, Inc aka GA-TEK	49	7.5W	5909 NW 61st Ave	EPA lead; Chip Humphrey	EPA Consent Decree		03/15/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gould Electronics, Inc aka GA-TEK	49	7.5W	5909 NW 61st Ave	EPA lead; Chip Humphrey	EPA Consent Decree		03/15/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gould Electronics, Inc aka GA-TEK	49	7.5W	5909 NW 61st Ave	EPA lead; Chip Humphrey	EPA Consent Decree		03/15/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low		EPA issued groundwater NFA based upon risk assessment		No SCM needed						EPA lead	
Gould Electronics, Inc aka GA-TEK	49	7.5W	5909 NW 61st Ave	EPA lead; Chip Humphrey	EPA Consent Decree		03/15/06	Groundwater/City Storm Sewer	Ongoing	TBD, storm sewer appears to be preferential pathway for contaminant migration	to be determined	Pathway is complete	p High		EPA lead									
Gould Electronics, Inc aka GA-TEK	49	7.5W	5909 NW 61st Ave	EPA lead; Chip Humphrey	EPA Consent Decree		03/15/06	Stormwater	Completed			Historically pathway existed. Current discharge insignificant pathway; no actions recommended	Low	p High	EPA lead		1) Contaminated soil removal and containment (landfill); 2) Sediment removal; 3) RCRA waste containment; 4) Removed waste pond 5) O&M ongoing						EPA lead	
Gould Electronics, Inc aka GA-TEK	49	7.5W	5909 NW 61st Ave	EPA lead; Chip Humphrey	EPA Consent Decree		03/15/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Confirmed or suspected **Sources** of contamination to the river								Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site information					Project status							Basis for determination that source control is needed												
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Gould Electronics, Inc aka GA-TEK	49	7.5W	5909 NW 61st Ave	EPA lead; Chip Humphrey	EPA Consent Decree		03/15/06	Other - Historic and Current NPDES permit	Completed			Historically pathway existed. Current discharge insignificant pathway; no actions recommended	Low		EPA lead		Removed waste pond (East Doane Lake); O&M ongoing						EPA lead	
Willbridge (Kinder Morgan, Chevron, Conoco Phillips)	1549	7.7 W	Front Ave & NW Doane	Jill Kiernan	Pre-PH Consent Order (3/94)	FS	06/12/06	Overland Transport/Sheet Flow	Completed			Insignificant pathway; no actions recommended	Low		Submitted to EPA fall 2004; no comments		No SCM needed						N/A	
Willbridge (Kinder Morgan, Chevron, Conoco Phillips)	1549	7.7 W	Front Ave & NW Doane	Jill Kiernan	Pre-PH Consent Order (3/94)	FS	06/12/06	Bank Erosion	Completed			Insignificant pathway; no actions recommended	Low		Submitted to EPA fall 2004; no comments		No SCM needed						N/A	
Willbridge (Kinder Morgan, Chevron, Conoco Phillips)	1549	7.7 W	Front Ave & NW Doane	Jill Kiernan	Pre-PH Consent Order (3/94)	FS	06/12/06	Groundwater	Completed			GW suspected migration pathway	High		Submitted to EPA fall 2004; no comments	no alternatives evaluation needed	Product recovery & hydraulic containment (sheet pile wall)	Proposed SCM submitted to EPA fall 2004; no comments	hydraulic containment and treatment		containment system to be installed in summer 2006			
Willbridge (Kinder Morgan, Chevron, Conoco Phillips)	1549	7.7 W	Front Ave & NW Doane	Jill Kiernan	Pre-PH Consent Order (3/94)	FS	06/12/06	Stormwater	Ongoing	Apply stormwater guidance to assess pathway	Fall 2006	Waiting on SCE to be completed	to be determined	High	Waiting on SCE to be completed									
Willbridge (Kinder Morgan, Chevron, Conoco Phillips)	1549	7.7 W	Front Ave & NW Doane	Jill Kiernan	Pre-PH Consent Order (3/94)	FS	06/12/06	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Willbridge (Kinder Morgan, Chevron, Conoco Phillips)	1549	7.7 W	Front Ave & NW Doane	Jill Kiernan	Pre-PH Consent Order (3/94)	FS	08/12/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chevron Asphalt	1281	8.0 W	5501 NW Front	Mark Pugh	PH Letter Agr for XPA (1/03)	XPA	06/06/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chevron Asphalt	1281	8.0 W	5501 NW Front	Mark Pugh	PH Letter Agr for XPA (1/03)	XPA	06/06/06	Bank Erosion	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chevron Asphalt	1281	8.0 W	5501 NW Front	Mark Pugh	PH Letter Agr for XPA (1/03), new agreement being negotiated	XPA	06/06/06	Groundwater	Ongoing	XPA fieldwork complete; DEQ provided comments for source control screening; SCE report pending	spring 2007	Waiting on SCE to be completed	p Low		Waiting on SCE to be completed.			Waiting on SCE to be completed.						
Chevron Asphalt	1281	8.0 W	5501 NW Front	Mark Pugh	PH Letter Agr for XPA (1/03), new agreement being negotiated	XPA	06/06/06	Stormwater	Ongoing	XPA fieldwork complete; DEQ provided comments for source control screening; SCE report pending	spring 2007	Waiting on SCE to be completed	p Med	p Med	Waiting on SCE to be completed.			Waiting on SCE to be completed						
Chevron Asphalt	1281	8.0 W	5501 NW Front	Mark Pugh	PH Letter Agr for XPA (1/03)	XPA	06/06/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chevron Asphalt	1281	8.0 W	5501 NW Front	Mark Pugh	PH Letter Agr for XPA (1/03)	XPA	06/06/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front Ave LP	1239	8.1 W	4950, 5034 & 5200 NW Front	Mike Romero	VCP Letter Agr for PA (1/02)	RI	06/12/06	Overland Transport/Sheet Flow	Ongoing	Conducting XPA	2006	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed.									
Front Ave LP	1239	8.1 W	4950, 5034 & 5200 NW Front	Mike Romero	VCP Letter Agr for PA (1/02)	RI	06/12/06	Bank Erosion	Ongoing	Conducting XPA	2006	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed.									
Front Ave LP	1239	8.1 W	4950, 5034 & 5200 NW Front	Mike Romero	VCP Letter Agr for PA (1/02)	RI	06/12/06	Groundwater	Ongoing	Conducting XPA	2006	Waiting on SCE to be completed	to be determined	to be determined	Waiting on SCE to be completed.									

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Front Ave LP	1239	8.1 W	4950, 5034 & 5200 NW Front	Mike Romero	VCP Letter Agr for PA (1/02)	RI	06/12/06	Stormwater	Ongoing	Conducting XPA, additional sampling needed	2006	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed.									
Front Ave LP	1239	8.1 W	4950, 5034 & 5200 NW Front	Mike Romero	VCP Letter Agr for PA (1/02)	RI	06/12/06	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front Ave LP	1239	8.1 W	4950, 5034 & 5200 NW Front	Mike Romero	VCP Letter Agr for PA (1/02)	RI	06/12/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Glacier Northwest Inc.	2378		5034 NW Front Ave	Mike Romero	Part of Front Ave LP site, see ESCI #1239			Overland Transport/Sheet Flow															
Glacier Northwest Inc	2378		5034 NW Front Ave	Mike Romero				Bank Erosion															
Glacier Northwest Inc.	2378		5034 NW Front Ave	Mike Romero				Groundwater															
Glacier Northwest Inc.	2378		5034 NW Front Ave	Mike Romero				Stormwater															
Glacier Northwest Inc.	2378		5034 NW Front Ave	Mike Romero				Overwater Activities															
Glacier Northwest Inc.	2378		5034 NW Front Ave	Mike Romero				Other															
USCG	1338	8.2 E	6767 N Basin Ave.	Tom Gainer	VCP Letter Agr (2/04)	RI	03/06/06	Overland Transport/Sheet Flow	Completed			Insignificant pathway; no actions recommended	Low	to be determined	Waiting on SCE to be completed, Winter 2006									
USCG	1338	8.2 E	6767 N Basin Ave.	Tom Gainer	VCP Letter Agr (2/04)	RI	03/06/06	Bank Erosion	Completed			Insignificant pathway; no actions recommended	Low		Waiting on SCE to be completed, Winter 2006									
USCG	1338	8.2 E	6767 N Basin Ave.	Tom Gainer	VCP Letter Agr (2/04)	RI	03/06/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low		Waiting on SCE to be completed, Winter 2006									
USCG	1338	8.2 E	6767 N Basin Ave.	Tom Gainer	VCP Letter Agr (2/04)	RI	06/12/06	Stormwater	Ongoing	Sampling stormwater system	Fall 2006	Waiting on SCE to be completed	p Low		Waiting on SCE to be completed, Winter 2006									
USCG	1338	8.2 E	6767 N Basin Ave.	Tom Gainer	VCP Letter Agr (2/04)	RI	06/12/06	Overwater Activities	Ongoing	Evaluate dock activities	Fall 2006	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed, Winter 2006									
USCG	1338	8.2 E	6767 N Basin Ave.	Tom Gainer	VCP Letter Agr (2/04)	RI	03/06/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fred Devine	2365	8.3 E	6211 N Ensign	Mark Pugh	No Agr	XPA	06/06/06	Overland Transport/Sheet Flow	Not Started	screening	No current schedule.	Insignificant pathway; no actions recommended	Low	p Med	Waiting on SCE completion									
Fred Devine	2365	8.3 E	6211 N Ensign	Mark Pugh	No Agr	XPA	06/06/06	Bank Erosion	Not Started	screening	No current schedule.	Waiting on SCE to be completed	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fred Devine	2365	8.3 E	6211 N Ensign	Mark Pugh	No Agr	XPA	06/06/06	Groundwater	Not Started	screening	No current schedule.	Waiting on SCE to be completed	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fred Devine	2365	8.3 E	6211 N Ensign	Mark Pugh	No Agr	XPA	06/06/06	Stormwater	Ongoing	negotiate agreement or issue order to conduct stormwater SCE	negotiate agreement or issue order by 6/2006, complete SCE early 2007	Waiting on SCE to be completed	p Med		Waiting on SCE to be completed.									
Fred Devine	2365	8.3 E	6211 N Ensign	Mark Pugh	No Agr	XPA	06/06/06	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fred Devine	2365	8.3 E	6211 N Ensign	Mark Pugh	No Agr	XPA	06/06/06	Other	N/A	N/A	N/A	Waiting on SCE to be completed	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schnitzer Kittridge	2442	8.3 W	4959 NW Front	Matt McClincy	PH Letter Agr for XPA (9/00)	XPA	03/13/06	Overland Transport/Sheet Flow	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented 8/2002		No SCM needed							

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Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor

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Confirmed or suspected **Sources** of contamination to the river								Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)									
Site information					Project status							Basis for determination that source control is needed													
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Schnitzer Kittridge	2442	8.3 W	4959 NW Front	Matt McClincy	PH Letter Agr for XPA (9/00)	XPA	03/13/06	Bank Erosion	N/A			N/A	none	Low	EPA reviewed and commented 8/2002		No SCM needed							
Schnitzer Kittridge	2442	8.3 W	4959 NW Front	Matt McClincy	PH Letter Agr for XPA (9/00)	XPA	03/13/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented 8/2002		No SCM needed							
Schnitzer Kittridge	2442	8.3 W	4959 NW Front	Matt McClincy	PH Letter Agr for XPA (9/00)	XPA	03/13/06	Stormwater	Completed			Insignificant pathway; possible historic source	Low		EPA reviewed and commented 8/2002		No SCM needed							
Schnitzer Kittridge	2442	8.3 W	4959 NW Front	Matt McClincy	PH Letter Agr for XPA (9/00)	XPA	03/13/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schnitzer Kittridge	2442	8.3 W	4959 NW Front	Matt McClincy	PH Letter Agr for XPA (9/00)	XPA	03/13/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Freightliner Truck Plant	2366	8.4 E	6936 N Fathom	Mike Romero	PH Agr for RI/SCM (12/02)	RI	06/12/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Freightliner Truck Plant	2366	8.4 E	6936 N Fathom	Mike Romero	PH Agr for RI/SCM (12/02)	RI	06/12/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Freightliner Truck Plant	2366	8.4 E	6936 N Fathom	Mike Romero	PH Agr for RI/SCM (12/02)	RI	06/12/06	Groundwater	Ongoing	determine nature and extent of VOC plume	SOW under development, 2006.	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed.									
Freightliner Truck Plant	2366	8.4 E	6936 N Fathom	Mike Romero	PH Agr for RI/SCM (12/02)	RI	06/12/06	Stormwater	Ongoing	SW evaluation needed	SOW under development, due spring 2006	Waiting on SCE to be completed	to be determined	to be determined	Waiting on SCE to be completed.		RP voluntarily applying SW engineering controls on Ensign Street Outfall; coating metal roof; stormwater system sediment cleanout 06' prior to completing screening						
Freightliner Truck Plant	2366	8.4 E	6936 N Fathom	Mike Romero	PH Agr for RI/SCM (12/02)	RI	06/12/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Freightliner Truck Plant	2366	8.4 E	6936 N Fathom	Mike Romero	PH Agr for RI/SCM (12/02)	RI	06/12/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lakeside Industries	2372	8.4 W	4850 NW Front	Bill Robertson	PH Letter Agr for XPA (3/02)	XPA	03/06/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lakeside Industries	2372	8.4 W	4850 NW Front	Bill Robertson	PH Letter Agr for XPA (3/02)	XPA	03/06/06	Bank Erosion	Completed			Insignificant pathway; no actions recommended	Low		Waiting on SCE completion									
Lakeside Industries	2372	8.4 W	4850 NW Front	Bill Robertson	PH Letter Agr for XPA (3/02)	XPA	03/06/06	Groundwater	Ongoing	DEQ review of SCE data and source control determination	2006	Waiting on SCE to be completed	to be determined	to be determined	Waiting on SCE completion May 2006		UIC closures in 2003							
Lakeside Industries	2372	8.4 W	4850 NW Front	Bill Robertson	PH Letter Agr for XPA (3/02)	XPA	03/06/06	Stormwater	Ongoing	Initiate stormwater evaluation	to be determined	Waiting on SCE to be completed	to be determined		Waiting on SCE completion		Interim SCM: stormwater UICs closure in 2003							
Lakeside Industries	2372	8.4 W	4850 NW Front	Bill Robertson	PH Letter Agr for XPA (3/02)	XPA	03/06/06	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lakeside Industries	2372	8.4 W	4850 NW Front	Bill Robertson	PH Letter Agr for XPA (3/02)	XPA	03/06/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Portland Shipyard	271	8.4 E	Swan Island	Jennifer Sutter	Pre-PH VCP Letter Agr (9/98) PH Agr in signature process	RI	06/06/06	Bank Erosion	Ongoing	RP is conducting RI to determine if SCM is needed	SOW under development, due (90 days after PH Agr issued)	Waiting on SCE to be completed	p Med		Waiting on SCE to be completed.									
Portland Shipyard	271	8.4 E	Swan Island	Jennifer Sutter	Pre-PH VCP Letter Agr (9/98)	RI	06/06/06	Bank Erosion - N Channel Ave Fab Area	Ongoing	RP is conducting RI to determine if SCM is needed	Risk assessment workplan approved with comment	Waiting on SCE to be completed	p Med		Waiting on SCE to be completed, Spring 2006									

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Confirmed or suspected **Sources** of contamination to the river								Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site information					Project status							Basis for determination that source control is needed												
Site name	*ECSI #*	River mile	*Address*	*DEQ PM*	Type of agreement directing source control	Project status	Date last *modified* (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA *review of* SCM selection decision	SCM activities *completed to date* (m-y)	Mass or volume of *contaminants* controlled	Proposed SCM *activities to be done* and schedule (m-y)	Date SCM *completed* (m-y)	Status of EPA *review of* completed SCM	Operaton and *maintenance* requirements
Portland Shipyard	271	8.4 E	Swan Island	Jennifer Sutter	Pre-PH VCP Letter Agr (9/98)	RI	06/06/06	Groundwater	Ongoing	RP is conducting RI to determine if SCM is needed; 2005 annual groundwater *monitoring report submitted*	SOW under development, due (90 days after PH Agr issued)	Waiting on SCE to be completed	p Med	p Med	Waiting on SCE to be completed.									
Portland Shipyard	271	8.4 E	Swan Island	Jennifer Sutter	Pre-PH VCP Letter Agr (9/98)	RI	06/06/06	Groundwater - N Channel Ave Fab Area	Ongoing	Risk assessment workplan approved with comment	SOW under development, due (under review)	Waiting on SCE to be completed	p Med		Waiting on SCE to be completed, Spring 2006									
Portland Shipyard	271	8.4 E	Swan Island	Jennifer Sutter	Pre-PH VCP Letter Agr (9/98)	RI	06/06/06	Stormwater	Not Started	Negotiating agreement with current owner	negotiate agreement by 6/2006, initiate SW evaluation summer 2006	Waiting on SCE to be completed.	p Med		Waiting on SCE to be completed.									
Portland Shipyard	271	8.4 E	Swan Island	Jennifer Sutter	Pre-PH VCP Letter Agr (9/98)	RI	06/06/06	Stormwater - N Channel Ave Fab Area	Ongoing	*Risk assessment workplan* approved with comment	Supplemental RI *data needed; to be* completed by summer 2006	Waiting on SCE to be completed	p Med		Waiting on SCE to be completed, Spring 2006									
Portland Shipyard	271	8.4 E	Swan Island	Jennifer Sutter	Pre-PH VCP Letter Agr (9/98)	RI	06/06/06	Overwater Activities	N/A	N/A	N/A	No known current sources (spills will be reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Portland Shipyard	271	8.4 E	Swan Island	Jennifer Sutter	Pre-PH VCP Letter Agr (9/98)	RI	06/06/06	Overwater Activities - N Channel Ave Fab Area	N/A	N/A	N/A	No known current sources (spills will be reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Portland Shipyard	271	8.4 E	Swan Island	Jennifer Sutter	Pre-PH VCP Letter Agr (9/98)	RI	06/06/06	Overland Transport/Sheet Flow	Ongoing	RP is conducting RI to *determine if SCM is needed*	SOW under development, due (90 days after PH Agr issued)	Waiting on SCE to be completed	p Low		*Waiting on SCE* to be completed, Spring 2006									
Portland Shipyard	271	8.4 E	Swan Island	Jennifer Sutter	Pre-PH VCP Letter Agr (9/98)	RI	06/06/06	Overland Transport/Sheet Flow - N Channel Ave Fab Area	Ongoing	Risk assessment workplan approved with comment	SOW under development, due (under review)	Waiting on SCE to be completed	p Med		Waiting on SCE to be completed, Spring 2006									
Shaver Transportation	2377	8.4 W	4900 NW Front	Mark Pugh	PH Letter Agr for XPA (3/01)	NFA	03/03/06	Overland Transport/Sheet Flow	Completed			Insignificant pathway; no actions recommended	Low	Low	EPA reviewed and commented, 8/2002		No SCM needed							
Shaver Transportation	2377	8.4 W	4900 NW Front	Mark Pugh	PH Letter Agr for XPA (3/01)	NFA	03/03/06	Bank Erosion	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented, 8/2002		No SCM needed							
Shaver Transportation	2377	8.4 W	4900 NW Front	Mark Pugh	PH Letter Agr for XPA (3/01)	NFA	03/03/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented, 8/2002		No SCM needed							
Shaver Transportation	2377	8.4 W	4900 NW Front	Mark Pugh	PH Letter Agr for XPA (3/01)	NFA	03/03/06	Stormwater	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented, 8/2002		No SCM needed							
Shaver Transportation	2377	8.4 W	4900 NW Front	Mark Pugh	PH Letter Agr for XPA (3/01)	NFA	03/03/06	Overwater Activities	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented, 8/2002		No SCM needed							
Shaver Transportation	2377	8.4 W	4900 NW Front	Mark Pugh	PH Letter Agr for XPA (3/01)	NFA	03/03/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Calbag Metals	2454	8.5 W	4927 NW Front	Tom Gainer	PH Letter Agr for XPA (1/01)	XPA	03/06/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	Medium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Calbag Metals	2454	8.5 W	4927 NW Front	Tom Gainer	PH Letter Agr for XPA (1/01)	XPA	03/06/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Calbag Metals	2454	8.5 W	4927 NW Front	Tom Gainer	PH Letter Agr for XPA (1/01)	XPA	03/06/06	Groundwater	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Calbag Metals	2454	8.5 W	4927 NW Front	Tom Gainer	PH Letter Agr for XPA (1/01)	XPA	03/06/06	Stormwater	Completed			Pathway is complete	Medium		EPA reviewed and commented on preliminary SCD, 8/2004	alternatives evaluation completed, submitted to EPA 9/2005	stormwater catch basin in-line cleanout, stormwater BMPs, monitoring	SCM SCD finalized 11/2005, EPA commented	stormwater catch basin in-line cleanout, stormwater BMPs, monitoring		ongoing stormwater monitoring through spring 2006			
Calbag Metals	2454	8.5 W	4927 NW Front	Tom Gainer	PH Letter Agr for XPA (1/01)	XPA	03/06/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Calbag Metals	2454	8.5 W	4927 NW Front	Tom Gainer	PH Letter Agr for XPA (1/01)	XPA	03/06/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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7/3/2006

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Confirmed or suspected **Sources** of contamination to the river								Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site information					Project status							Basis for determination that source control is needed												
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Texaco Product Pipeline	2117	8.7	4500 Block Front Ave.	Matt McClincy	PH Agr for RI/SCM (8/00)	RI	06/12/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	p Low	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Texaco Product Pipeline	2117	8.7	4500 Block Front Ave.	Matt McClincy	PH Agr for RI/SCM (8/00)	RI	06/12/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Texaco Product Pipeline	2117	8.7	4500 Block Front Ave.	Matt McClincy	PH Agr for RI/SCM (8/00)	RI	06/12/06	Groundwater	Ongoing	RP needs to finalize RI and SCE report	Draft SCE expected 2006	Waiting on SCE to be completed	p Low		Waiting for SCE to be completed.									
Texaco Product Pipeline	2117	8.7	4500 Block Front Ave.	Matt McClincy	PH Agr for RI/SCM (8/00)	RI	06/12/06	Stormwater	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Texaco Product Pipeline	2117	8.7	4500 Block Front Ave.	Matt McClincy	PH Agr for RI/SCM (8/00)	RI	06/12/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Texaco Product Pipeline	2117	8.7	4500 Block Front Ave.	Matt McClincy	PH Agr for RI/SCM (8/00)	RI	06/12/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Container Recovery	4015	8.8W	3900 NW Yeon	Matt McClincy	Pre-PH VCP Letter Agr for RI/FS	conditional NFA 2004	03/10/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	Low	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Container Recovery	4015	8.8W	3900 NW Yeon	Matt McClincy	Pre-PH VCP Letter Agr for RI/FS	conditional NFA 2004	03/10/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Container Recovery	4015	8.8W	3900 NW Yeon	Matt McClincy	Pre-PH VCP Letter Agr for RI/FS	conditional NFA 2004	03/10/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low		Waiting on SCE completion		No SCM needed							
Container Recovery	4015	8.8W	3900 NW Yeon	Matt McClincy	None	conditional NFA 2004	03/10/06	Stormwater	N/A	N/A	N/A	N/A	none			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Container Recovery	4015	8.8W	3900 NW Yeon	Matt McClincy	Pre-PH VCP Letter Agr for RI/FS	conditional NFA 2004	03/10/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Container Recovery	4015	8.8W	3900 NW Yeon	Matt McClincy	Pre-PH VCP Letter Agr for RI/FS	conditional NFA 2004	03/10/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PGE Forest Park	2406	8.5	4400 Block Street	Tom Roick	PPA	RI	06/07/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	to be determined	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
PGE Forest Park	2406	8.5	4400 Block Street	Tom Roick	PPA	RI	06/07/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PGE Forest Park	2406	8.5	4400 Block Street	Tom Roick	PPA	RI	06/07/06	Groundwater	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PGE Forest Park	2406	8.5	4400 Block Street	Tom Roick	PPA	RI	06/07/06	Stormwater	Ongoing	Storm line investigation 6/06	~Fall 2006	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed									
PGE Forest Park	2406	8.5	4400 Block Street	Tom Roick	PPA	RI	06/07/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PGE Forest Park	2406	8.5	4400 Block Street	Tom Roick	PPA	RI	06/07/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Christensen Oil	2426	8.9 W	3821 NW St Helens	Tom Gainer	VCP Letter Agr for PA (8/00)	XPA	03/06/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	to be determined	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Christensen Oil	2426	8.9 W	3821 NW St Helens	Tom Gainer	VCP Letter Agr for PA (8/00)	XPA	03/06/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Christensen Oil	2426	8.9 W	3821 NW St Helens	Tom Gainer	VCP Letter Agr for PA (8/00)	XPA	03/06/06	Groundwater	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Christensen Oil	2426	8.9 W	3821 NW St Helens	Tom Gainer	VCP Letter Agr for PA (8/00)	XPA	06/12/06	Stormwater	Ongoing	Storm water sampling per JSCS	Winter2006	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed; 2006		Storm water BMPs and filtering catch basin sediment							
Christensen Oil	2426	8.9 W	3821 NW St Helens	Tom Gainer	VCP Letter Agr for PA (8/00)	XPA	03/06/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Christensen Oil	2426	8.9 W	3821 NW St Helens	Tom Gainer	VCP Letter Agr for PA (8/00)	XPA	03/06/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Texaco Terminal	169	8.9 W	3800 NW St Helens	Matt McClincy	PH Agr for RI/SCM (8/00)	RI	06/12/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor

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Confirmed or suspected **Sources** of contamination to the river								Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site information					Project status							Basis for determination that source control is needed												
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Texaco Terminal	169	8.9 W	3800 NW St Helens	Matt McClincy	PH Agr for RI/SCM (8/00)	RI	06/12/06	Bank Erosion	N/A	N/A	N/A	N/A	none	to be determined	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Texaco Terminal	169	8.9 W	3800 NW St Helens	Matt McClincy	PH Agr for RI/SCM (8/00)	RI	06/12/06	Groundwater	Ongoing	RP needs to finalize RI and SCE report	Draft SCE expected 2006	Waiting on SCE to be completed	p Low		Waiting for SCE to be completed.									
Texaco Terminal	169	8.9 W	3800 NW St Helens	Matt McClincy	PH Agr for RI/SCM (8/00)	RI	06/12/06	Stormwater	Ongoing	RP needs to finalize RI and SCE report	Draft SCE expected 2006	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed									
Texaco Terminal	169	8.9 W	3800 NW St Helens	Matt McClincy	PH Agr for RI/SCM (8/00)	RI	06/12/06	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Texaco Terminal	169	8.9 W	3800 NW St Helens	Matt McClincy	PH Agr for RI/SCM (8/00)	RI	06/12/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Anderson Brothers Property	970	8.9	5275 & 5315 NW St. Helens Rd.	Bob Schwarz	ICP	RI	03/06/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	to be determined	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Anderson Brothers Property	970	8.9	5275 & 5315 NW St. Helens Rd.	Bob Schwarz	ICP	RI	03/06/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Anderson Brothers Property	970	8.9	5275 & 5315 NW St. Helens Rd.	Bob Schwarz	ICP	RI	03/06/06	Groundwater	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Anderson Brothers Property	970	8.9	5275 & 5315 NW St. Helens Rd.	Bob Schwarz	ICP	RI	06/27/06	Stormwater	Ongoing	Implementation of stormwater line cleanout and BMPs	No current schedule	Waiting on SCE to be completed	to be determined		Wainting on SCE to be completed									
Anderson Brothers Property	970	8.9	5275 & 5315 NW St. Helens Rd.	Bob Schwarz	ICP	RI	03/06/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Anderson Brothers Property	970	8.9	5275 & 5315 NW St Helens Rd	Bob Schwarz	ICP	RI	03/06/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Vanwater and Rogers	330	9	3950 NW Yeon Ave	EPA lead; Kristine Koch				Overland Transport/Sheet Flow																
Vanwater and Rogers	330	9	3950 NW Yeon Ave	EPA lead; Kristine Koch				Bank Erosion																
Vanwater and Rogers	330	9	3950 NW Yeon Ave	EPA lead; Kristine Koch				Groundwater																
Vanwater and Rogers	330	9	3950 NW Yeon Ave	EPA lead; Kristine Koch				Stormwater																
Vanwater and Rogers	330	9	3950 NW Yeon Ave	EPA lead; Kristine Koch				Overwater Activities																
Vanwater and Rogers	330	9	3950 NW Yeon Ave	EPA lead; Kristine Koch				Other																
Guilds Lake RR Yard	100	9.0 W	3500 NW Yeon	Mike Romero	PH Agr for RI/SCM (12/02)	RI	06/12/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	to be determined	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Guilds Lake RR Yard	100	9.0 W	3500 NW Yeon	Mike Romero	PH Agr for RI/SCM (12/02)	RI	06/12/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Guilds Lake RR Yard	100	9.0 W	3500 NW Yeon	Mike Romero	PH Agr for RI/SCM (12/02)	RI	06/12/06	Groundwater	Ongoing	GW Investigation ongoing; in early stages	2006 Pre-RI report identified some sources; full SCE schedule to be determined	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed									
Guilds Lake RR Yard	100	9.0 W	3500 NW Yeon	Mike Romero	PH Agr for RI/SCM (12/02)	RI	06/12/06	Stormwater	Ongoing	SW Investigation ongoing; in early stages	2006 Pre-RI report identified some sources; full SCE schedule to be determined	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed									
Guilds Lake RR Yard	100	9.0 W	3500 NW Yeon	Mike Romero	PH Agr for RI/SCM (12/02)	RI	06/12/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Guilds Lake RR Yard	100	9.0 W	3500 NW Yeon	Mike Romero	PH Agr for RI/SCM (12/02)	RI	06/12/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Confirmed or suspected **Sources** of contamination to the river								Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site information					Project status							Basis for determination that source control is needed												
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Gunderson	1155	9.0 W	4350 SW Front	Dana Bayuk	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	06/12/06	Overland Transport/Sheet Flow - Area 1	N/A	N/A, entirely paved and/or developed	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gunderson	1155	9.0 W	4350 SW Front	Dana Bayuk	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	06/12/06	Overland Transport/Sheet Flow - Area 2	Ongoing	Complete RI report with source control screening, prepare source control evaluation	Projected for late 2006	Pathway is complete	p High		Waiting on SCE to be completed.									
Gunderson	1155	9.0 W	4350 SW Front	Dana Bayuk	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	06/12/06	Overland Transport/Sheet Flow - Area 3	Ongoing	Complete RI report with source control screening, prepare source control decision	Fall 2006	Pathway is complete	p High		Waiting on SCE completion									
Gunderson	1155	9.0 W	4350 SW Front	Dana Bayuk	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	06/12/06	Bank Erosion - Area 1	Ongoing	Survey of erodible soils, follow-up sampling	No current schedule.	Waiting on SCE to be completed	to be determined		Waiting on SCE completion									
Gunderson	1155	9.0 W	4350 SW Front	Dana Bayuk	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	06/12/06	Bank Erosion - Area 2	Ongoing	Complete RI report with source control screening, prepare source control decision	Projected for late 2006	Pathway is complete	p High		Waiting on SCE completion									
Gunderson	1155	9.0 W	4350 SW Front	Dana Bayuk	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	06/12/06	Bank Erosion - Area 3	Ongoing	Complete RI report with source control screening, prepare source control decision	Fall 2006	Pathway is complete	p High		Waiting on SCE completion									
Gunderson	1155	9.0 W	4350 SW Front	Dana Bayuk	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	06/12/06	Overwater Activities - Area 3	N/A	N/A	N/A	No known current sources (spills will be reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gunderson	1155	9.0 W	4350 SW Front	Dana Bayuk	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	06/12/06	Groundwater - Area 1	Completed	N/A, SCE submitted to EPA February 2003, SCMs implemented	N/A	Groundwater is a complete pathway, VOC plume migrating to river.	p Med	p High	EPA comments received 5/03	alternatives evaluation completed, EPA commens received 5/2003	Hydraulic containment and source removal	SCD submitted to EPA 2/2003, EPA comments received 5/2003	P&T and AS/SVE systems installed and operating	~20 lbs. of HVOCs removed as of 11/05	Assess downgradient capture of VOC plume on Lakeside Industries property. Schedule TBD			Quarterly performance monitoring and reporting
Gunderson	1155	9.0 W	4350 SW Front	Dana Bayuk	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	06/12/06	Groundwater - Area 2	Ongoing	Complete RI report with source control screening, prepare source control decision	Projected for late 2006	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed.									
Gunderson	1155	9.0 W	4350 SW Front	Dana Bayuk	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	06/12/06	Groundwater - Area 3	Ongoing	Complete RI report with source control screening, prepare source control decision	Fall 2006	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed.									
Gunderson	1155	9.0 W	4350 SW Front	Dana Bayuk	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	06/12/06	Stormwater - Area 1	Ongoing	Compile, review and screen data	No current schedule.	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed.									
Gunderson	1155	9.0 W	4350 SW Front	Dana Bayuk	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	06/12/06	Stormwater - Area 2	Ongoing	Complete RI report with source control screening, prepare source control decision	Projected for late 2006	Waiting on SCE to be completed	p High		Waiting on SCE to be completed.									
Gunderson	1155	9.0 W	4350 SW Front	Dana Bayuk	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	06/12/06	Stormwater - Area 3	Ongoing	Complete RI report with source control screening, prepare source control decision	Fall 2006	Waiting on SCE to be completed	p High		Waiting on SCE to be completed.									
Gunderson	1155	9.0 W	4350 SW Front	Dana Bayuk	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	06/12/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Freightliner (Parts Mfg Plant)	115	9.2 E	5400 N Basin	Mike Romero	PH Agr for RI/SCM (12/02)	RI	06/12/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Freightliner (Parts Mfg Plant)	115	9.2 E	5400 N Basin	Mike Romero	PH Agr for RI/SCM (12/02)	RI	06/12/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Freightliner (Parts Mfg Plant)	115	9.2 E	5400 N Basin	Mike Romero	PH Agr for RI/SCM (12/02)	RI	06/12/06	Groundwater	Ongoing	GW investigation nearing completion	2006	Waiting on SCE to be completed	to be determined											
Freightliner (Parts Mfg Plant)	115	9.2 E	5400 N Basin	Mike Romero	PH Agr for RI/SCM (12/02)	RI	06/12/06	Stormwater	Ongoing	Additional stormwater sampling needed	SOW under development, due spring 2006.	Waiting on SCE to be completed	to be determined	to be determined			RP voluntary cleanout of stormwater system prior to completing screening							

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Freightliner (Parts Mfg Plant)	115	9.2 E	5400 N Basin	Mike Romero	PH Agr for RI/SCM (12/02)	RI	06/12/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Freightliner (Parts Mfg Plant)	115	9.2 E	5400 N Basin	Mike Romero	PH Agr for RI/SCM (12/02)	RI	06/12/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Columbia American Plating	29	9.3	3003 NW 35th Ave	Mark Pugh	Negotiating PPA	Negotiating PPA	06/06/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	to be determined	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Columbia American Plating	29	9.3	3003 NW 35th Ave	Mark Pugh	Negotiating PPA	Negotiating PPA	06/06/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Columbia American Plating	29	9.3	3003 NW 35th Ave	Mark Pugh	Negotiating PPA	Negotiating PPA	06/06/06	Groundwater	Not Started	Additional limited groundwater sampling	No current schedule; pending PPA development	Waiting on SCE to be completed	to be determined											
Columbia American Plating	29	9.3	3003 NW 35th Ave	Mark Pugh	Negotiating PPA	Negotiating PPA	06/06/06	Stormwater	Not Started	Installation and sampling of storm drain	No current schedule; pending PPA development	Waiting on SCE to be completed	to be determined											
Columbia American Plating	29	9.3	3003 NW 35th Ave	Mark Pugh	Negotiating PPA	Negotiating PPA	06/06/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Columbia American Plating	29	9.3	3003 NW 35th Ave	Mark Pugh	Negotiating PPA	Negotiating PPA	06/06/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GE Decommis-sioning	4003	9.5 W	2727 NW 29th	Tom Gainer	PH Agr for XPA (1/04)	XPA	03/06/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GE Decommis-sioning	4003	9.5 W	2727 NW 29th	Tom Gainer	PH Agr for XPA (1/04)	XPA	03/06/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GE Decommis-sioning	4003	9.5 W	2727 NW 29th	Tom Gainer	PH Agr for XPA (1/04)	XPA	03/06/06	Groundwater	N/A	N/A	N/A	N/A	none	to be determined	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GE Decommis-sioning	4003	9.5 W	2727 NW 29th	Tom Gainer	PH Agr for XPA (1/04)	XPA	06/12/06	Stormwater	Ongoing	Storm water sampling per JSCS	Winter 2006	Waiting on SCE to be completed	to be determined		Waiting on SCE to be complete; winter 2006		Initiated removal of PCB contaminated sediment from onsite catch basins and pipes							
GE Decommis-sioning	4003	9.5 W	2727 NW 29th	Tom Gainer	PH Agr for XPA (1/04)	XPA	03/06/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Galvanizers Company	1196	9.6 W	2406 NW 30h	Dana Bayuk	PH Agr for XPA (10/03)	XPA	06/12/06	Overland Transport/Sheet Flow	N/A	N/A, site located ~4,500 feet from river	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Galvanizers Company	1196	9.6 W	2406 NW 30h	Dana Bayuk	PH Agr for XPA (10/03)	XPA	06/12/06	Bank Erosion	N/A	N/A, site located ~4,500 feet from river	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Galvanizers Company	1196	9.6 W	2406 NW 30h	Dana Bayuk	PH Agr for XPA (10/03)	XPA	06/12/06	Groundwater	Ongoing	Continued monitoring	No current schedule.	*XPA data suggests* groundwater may contribute to City storm line during low flows	to be determined		Waiting on SCE to be completed. (2006)									

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Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Galvanizers Company	1196	9.6 W	2406 NW 30h	Dana Bayuk	PH Agr for XPA (10/03)	XPA	06/12/06	Stormwater	Ongoing	Continued monitoring per JSCS	2006	Pathway is complete	to be determined	to be determined	Waiting on SCE to be completed. (2006)		Final SCMs TBD, interim SCMs include supplementing BMPs (yard sweeping) and evaluating yard paving/sealing and separting site storm water from City line							
Galvanizers Company	1196	9.6 W	2406 NW 30h	Dana Bayuk	PH Agr for XPA (10/03)	XPA	06/12/06	Overwater Activities	N/A	N/A, site located ~4,500 feet from river	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Galvanizers Company	1196	9.6 W	2406 NW 30h	Dana Bayuk	PH Agr for XPA (10/03)	XPA	06/12/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Goldendale Aluminum	2440	9.8 E	2600 N River	Tom Gainer	PH Letter Agr for XPA (2/00)	NFA 5/2004	03/06/06	Overland Transport/Sheet Flow	Completed			Insignificant pathway; no actions recommended	Low	Low	EPA reviewed and commented 5/04		No SCM needed						N/A	
Goldendale Aluminum	2440	9.8 E	2600 N River	Tom Gainer	PH Letter Agr for XPA (2/00)	NFA 5/2004	03/06/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Goldendale Aluminum	2440	9.8 E	2600 N River	Tom Gainer	PH Letter Agr for XPA (2/00)	NFA 5/2004	03/06/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented 5/04		No SCM needed						N/A	
Goldendale Aluminum	2440	9.8 E	2600 N River	Tom Gainer	PH Letter Agr for XPA (2/00)	NFA 5/2004	03/06/06	Stormwater	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented 5/04		No SCM needed						N/A	
Goldendale Aluminum	2440	9.8 E	2600 N River	Tom Gainer	PH Letter Agr for XPA (2/00)	NFA 5/2004	03/06/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Goldendale Aluminum	2440	9.8 E	2600 N River	Tom Gainer	PH Letter Agr for XPA (2/00)	NFA 5/2004	03/06/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Port of Portland Terminal 2	2769	10.0 W	3556 NW Front	Tom Gainer	IGA	XPA	03/06/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Port of Portland Terminal 2	2769	10.0 W	3556 NW Front	Tom Gainer	IGA	XPA	03/06/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Port of Portland Terminal 2	2769	10.0 W	3556 NW Front	Tom Gainer	IGA	XPA	03/06/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low	to be determined	Waiting on SCE to be completed; 2006										
Port of Portland Terminal 2	2769	10.0 W	3556 NW Front	Tom Gainer	IGA	XPA	06/12/06	Stormwater	Ongoing	Evaluate stormwater system	Fall 2006	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed; 2006										
Port of Portland Terminal 2	2769	10.0 W	3556 NW Front	Tom Gainer	IGA	XPA	03/06/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Port of Portland Terminal 2	2769	10.0 W	3556 NW Front	Tom Gainer	IGA	XPA	03/06/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
UPRR Albina	178	10.3 E	2745 N Interstate	Mike Romero	PH Agr for RI/SCM (3/02)	RI	06/12/06	Overland Transport/Sheet Flow	Ongoing	SCE ongoing	2006	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed										
UPRR Albina	178	10.3 E	2745 N Interstate	Mike Romero	PH Agr for RI/SCM (3/02)	RI	06/12/06	Bank Erosion	Ongoing	SCE ongoing	2006	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed										

Table 1: DEQ Milestone Report
Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor

= Shading indicates that upland source control work has been completed at the site.
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Confirmed or suspected **Sources** of contamination to the river								Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site information					Project status							Basis for determination that source control is needed												
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
UPRR Albina	178	10 3 E	2745 N Interstate	Mike Romero	PH Agr for RI/SCM (3/02)	RI	06/12/06	Groundwater	Ongoing	SCE ongoing	2006	Waiting on SCE to be completed	to be determined	to be determined	Waiting on SCE to be completed									
UPRR Albina	178	10.3 E	2745 N Interstate	Mike Romero	PH Agr for RI/SCM (3/02)	RI	06/12/06	Stormwater	Ongoing	SCE ongoing	2006	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed		RP cleaned out stormwater system prior to completion of screening; more SCMs may be needed							
UPRR Albina	178	10.3 E	2745 N Interstate	Mike Romero	PH Agr for RI/SCM (3/02)	RI	06/12/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
UPRR Albina	178	10 3 E	2745 N Interstate	Mike Romero	PH Agr for RI/SCM (3/02)	RI	06/12/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PGE Substation E	3976	10.4	2635 NW Front Ave.	Tom Gainer	VCP	XPA	03/02/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PGE Substation E	3976	10.4	2635 NW Front Ave.	Tom Gainer	VCP	XPA	03/02/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PGE Substation E	3976	10.4	2635 NW Front Ave.	Tom Gainer	VCP	XPA	06/12/06	Groundwater	Completed	Respond to BES comments	Summer 2006	Insignificant pathway; no actions recommended	Low	Low	SCE submitted to EPA for review 3/2006									
PGE Substation E	3976	10.4	2635 NW Front Ave.	Tom Gainer	VCP	XPA	03/02/06	Stormwater	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PGE Substation E	3976	10.4	2635 NW Front Ave.	Tom Gainer	VCP	XPA	03/02/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PGE Substation E	3976	10.4	2635 NW Front Ave.	Tom Gainer	VCP	XPA	03/02/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sulzer Pump	1235	10.4 W	2800 NW Front	Mark Pugh	PH Agr for XPA (9/02)	XPA	03/03/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sulzer Pump	1235	10.4 W	2800 NW Front	Mark Pugh	PH Agr for XPA (9/02)	XPA	06/06/06	Bank Erosion	Ongoing	RP is conducting a SCE	SCE to be completed in fall 2006	Waiting on SCE to be completed	p Low		Waiting on SCE to be completed, fall 2006									
Sulzer Pump	1235	10.4 W	2800 NW Front	Mark Pugh	PH Agr for XPA (9/02)	XPA	06/06/06	Groundwater	Ongoing	RP is conducting a SCE	SCE to be completed in fall 2006	Waiting on SCE to be completed	p Low		Waiting on SCE to be completed, fall 2006	schedule for completing draft evaluation report: Fall 2006	Storm line and catch basin cleanout	SCE evaluation pending	Cleanout completed in Oct 2005					
Sulzer Pump	1235	10.4 W	2800 NW Front	Mark Pugh	PH Agr for XPA (9/02)	XPA	06/06/06	Stormwater	Ongoing	RP is conducting a SCE	SCE to be completed in fall 2006	Waiting on SCE to be completed	p Med	p Med	Waiting on SCE to be completed, fall 2006									
Sulzer Pump	1235	10.4 W	2800 NW Front	Mark Pugh	PH Agr for XPA (9/02)	XPA	06/06/06	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sulzer Pump	1235	10.4 W	2800 NW Front	Mark Pugh	PH Agr for XPA (9/02)	XPA	06/06/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Port of Portland Terminal 1 North	3377	10.6 W	2200 NW Front	Tom Gainer	PH Agr for RI/SCM	RI	03/06/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Port of Portland Terminal 1 North	3377	10.6 W	2200 NW Front	Tom Gainer	PH Agr for RI/SCM	RI	03/06/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Port of Portland Terminal 1 North	3377	10.6 W	2200 NW Front	Tom Gainer	PH Agr for RI/SCM	RI	06/12/06	Groundwater	Ongoing	Complete groundwater weight-of-evidence evaluation concerning one well	Summer 2006	Waiting on SCE to be completed	to be determined	to be	Waiting on SCE to be completed; 2006									

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7/3/2006

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Confirmed or suspected **Sources** of contamination to the river																						
Site information					Project status			Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Basis for determination that source control is needed			Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
												Pathway determination	Pathway priority level	Site priority level										
Port of Portland Terminal 1 North	3377	10.6 W	2200 NW Front	Tom Gainer	PH Agr for RI/SCM	RI	03/06/06	Stormwater	Completed			Insignificant pathway; no actions recommended	Low	determined	Waiting on SCE to be completed; 2006									
Port of Portland Terminal 1 North	3377	10.6 W	2200 NW Front	Tom Gainer	PH Agr for RI/SCM	RI	03/06/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Port of Portland Terminal 1 North	3377	10.6 W	2200 NW Front	Tom Gainer	PH Agr for RI/SCM	RI	03/06/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Riverscape (aka Port of Portland T1S)	2642	10.9	2100 NW Front	Matt McClincy	RD/RA Agreement (06/06/03)	Conditional NFA 6/2003	03/13/06	Overland Transport/Sheet Flow	Completed			Insignificant pathway; no actions recommended	Low	Low	EPA did not review SCD since site was outside PH		Soil removal and management plan during development; Deed restrictions						EPA did not review SCD since site was outside PH	
Riverscape (aka Port of Portland T1S)	2642	10.9	2100 NW Front	Matt McClincy	RD/RA Agreement (06/06/03)	Conditional NFA 6/2003	03/13/06	Bank Erosion	Completed			Insignificant pathway; no actions recommended	Low		EPA did not review SCD since site was outside PH		No SCM needed						EPA did not review SCD since site was outside PH	
Riverscape (aka Port of Portland T1S)	2642	10.9	2100 NW Front	Matt McClincy	RD/RA Agreement (06/06/03)	Conditional NFA 6/2003	03/13/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low		EPA did not review SCD since site was outside PH		No SCM needed						EPA did not review SCD since site was outside PH	
Riverscape (aka Port of Portland T1S)	2642	10.9	2100 NW Front	Matt McClincy	RD/RA Agreement (06/06/03)	Conditional NFA 6/2003	03/13/06	Stormwater	Completed			Insignificant pathway; no actions recommended	Low		EPA did not review SCD since site was outside PH		No SCM needed						EPA did not review SCD since site was outside PH	
Riverscape (aka Port of Portland T1S)	2642	10.9	2100 NW Front	Matt McClincy	RD/RA Agreement (06/06/03)	Conditional NFA 6/2003	03/13/06	Overwater Activities	Completed			Insignificant pathway; no actions recommended	Low		EPA did not review SCD since site was outside PH		No SCM needed						EPA did not review SCD since site was outside PH	
Riverscape (aka Port of Portland T1S)	2642	10.9	2100 NW Front	Matt McClincy	RD/RA Agreement (06/06/03)	Conditional NFA 6/2003	03/13/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: DEQ screened the following sites and determined that they are not potential sources of contamination to the Willamette River: Alder Creek Lumber; Babcock Land Company, LLC; City of Portland Bureau of Environmental Services Water Lab; Hamton Lumber Sales/CMI/NW; Hendren Tow Boats; Lone Star NW; RK Storage; Santa Fe Pacific Pipeline; Transloader International (General Construction Co.).